West Chester
STATE COLLEGE BULLETIN

Undergraduate studies
69-70

Communications Directory

Applications/Admissions	Undergraduate: Office of Admissions, Administration Graduate: Office of Graduate Studies, Administration
Athletic Events	Director of Athletics, Health Physical Education Center
Audio-Visual Aids	Bureau of Educational Media Services, Anderson
Business/Fiscal Matters	Office of Business Affairs, Philips
Catalogues	Undergraduate: Office of Admissions, Administration Undergraduate (Summer): Director of Summer Sessions, Administration Graduate: Office of Graduate Studies, Administration
Certification/Curricula/ Graduation Requirements/ Intern Programs	Office of Undergraduate Studies, Administration
Counseling	Guidance and Counseling Center, Old Main
Cultural Affairs	All-Star, Chamber Music, Assembly, and Philips Lecture Series, and other All-College cultural events: Office of Cultural Affairs, Administration
European Study	Junior Year Abroad (France): Department of Foreign Languages, Recitation European Summer Tour: Division of Social Sciences, Anderson
Faculty Speakers	Office of Public Relations, Administration
Film Service	Del-Chester Regional Instructional Materials Center, Anderson
Financial Aid	Office of Financial Aid to Students, Lawrence
Housing	Men: Dean of Men, Killinger Hall Women: Dean of Women, Old Main
Music	School of Music Recitals and Music Events: School of Music, Swope
Placement Services	Placement Service, Reynolds
Research/Computer Services	Bureau of Research and Related Services, Learning/Research
Selective Service/Veterans' Affairs	Office of Undergraduate Studies, Administration
Speech/Hearing Clinic	620 South High Street
Student Teaching	Director of Student Teaching, Smith House
Theatre 208	Department of Speech Theatre, Recitation
Transcripts	Director of Scheduling and Academic Records, Administration
Use of College Facilities	Division of Facilities, Philips

Post Office Address	Telephone
West Chester State College West Chester, Pa. 19380	The College has direct dialing. Call Telephone Directory Assistance and ask for telephone number of office you wish to reach.

WEST CHESTER STATE COLLEGE BULLETIN

1969–1970

Undergraduate Studies

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CONTENTS

V BOARDS

VI ACADEMIC CALENDAR

1 INTRODUCING WEST CHESTER

11 ADMISSION TO WEST CHESTER

20 EXPENSES

28 FINANCIAL AID TO STUDENTS

34 STUDENT LIVING

39 THE STUDENT COMMUNITY

48 ACADEMIC INFORMATION

61 PROGRAMS OF STUDY

64 COLLEGE OF ARTS AND SCIENCES

66 DIVISION OF ARTS AND LETTERS

89 DIVISION OF SCIENCES AND MATHEMATICS

105 DIVISION OF SOCIAL SCIENCES

124 SCHOOL OF EDUCATION

138 SCHOOL OF HEALTH AND PHYSICAL EDUCATION

145 SCHOOL OF MUSIC

151 COURSE DESCRIPTIONS

238 ADMINISTRATIVE OFFICERS

240 ADMINISTRATIVE PERSONNEL

241 FACULTY

275 INDEX

The provisions of this Bulletin are not to be regarded as an irrevocable contract between the student and the College. West Chester State College reserves the right to change any provisions or requirements at any time within the student's term of residence.

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FALL SEMESTER 1969

AUGUST	Friday	1	Last day to qualify for admission
SEPTEMBER	Friday	5	Faculty meetings
	Saturday	6	Registration—part-time students
	Monday	8	Registration—freshmen
	Tuesday	9	Registration—sophomores and seniors
	Wednesday	10	Registration—juniors, full-time transfer, special, and readmission students
	Thursday	11	Classes begin (both part-time and full-time students)
NOVEMBER	Tuesday	25	Thanksgiving recess begins (as classes end)
DECEMBER	Monday	1	Thanksgiving recess ends 4 p.m. for part-time and evening-class students
	Tuesday	2	Thanksgiving recess ends 7:30 a.m. for full-time students
	Monday	8	Pre-scheduling (four-day period) begins. Student Teaching (elementary and secondary) pre-scheduling: 3:30 p.m. this day. Part-time students 4-7 p.m. this day.
	Monday	15	Last day to qualify for admission, spring semester
	Saturday	20	Christmas recess begins (as clesses end)
JANUARY	Monday	5	Christmas recess ends 7:30 a.m.
	Monday	12	Final examinations begin (end January 20)
	Tuesday	20	Fall semester ends

SPRING SEMESTER 1970

JANUARY	Saturday	24	Registration—part-time students
	Monday	26	Registration—freshmen
	Tuesday	27	Registration—sophomores and seniors
	Wednesday	28	Registration—juniors, full-time transfer, special, and readmission students
	Thursday	29	Classes begin (both part-time and full-time students)
MARCH	Saturday	21	Spring-Easter recess begins (as classes end)
	Tuesday	31	Spring-Easter recess ends 7:30 a.m.
MAY	Monday	4	Pre-scheduling (four-day period) begins. Student Teaching (elementary and secondary) pre-scheduling: 3:30 p.m. this day. Part-time students: 4-7 p.m. this day.
	Thursday	14	Final examinations begin (end May 22)
	Saturday	23	Alumni Day
	Sunday	24	Commencement

SUMMER SESSION 1970

June 1 — June 19	Pre Session
June 22 — July 31	Regular Session
August 3 — August 21	Post Session

FALL SEMESTER 1970

AUGUST	Saturday	1	Last day to qualify for admission
SEPTEMBER	Friday	4	Faculty meetings
	Wednesday	9	Registration—freshmen
	Thursday	10	Registration—sophomores and seniors
	Friday	11	Registration—juniors, full-time transfer, special, and readmission students
	Saturday	12	Registration—part-time students
	Monday	14	Classes begin (both part-time and full-time students)
NOVEMBER	Tuesday	24	Thanksgiving recess begins (as classes end)
	Monday	30	Thanksgiving recess ends 7:30 a.m.
DECEMBER	Tuesday	15	Last day to qualify for admission, spring semester
	Saturday	19	Christmas recess begins (as classes end)
JANUARY	Monday	4	Christmas recess ends 7:30 a.m.
	Thursday	14	Final examinations begin (end January 22)
	Friday	22	Fall semester ends

SPRING SEMESTER 1971

JANUARY	Wednesday	27	Registration—freshmen
	Thursday	28	Registration—sophomores and seniors
	Friday	29	Registration—juniors, full-time transfers, special, and readmission students
	Saturday	30	Registration—part-time students
FEBRUARY	Monday	1	Classes begin (both part-time and full-time students)
	Friday	19	Washington's Birthday holiday begins
	Tuesday	23	Washington's Birthday holiday ends 7:30 a.m.
APRIL	Saturday	3	Spring-Easter recess begins (as classes end)
	Tuesday	12	Spring-Easter recess ends 7:30 a.m.
MAY	Thursday	20	Final examinations begin (end May 28)
	Saturday	29	Alumni Day
	Sunday	30	Commencement

SUMMER SESSION 1971

June 7 — June 25	Pre Session
June 28 — August 6	Regular Session
August 9 — August 27	Post Session

The College reserves the right to change the Academic Calendar if deemed necessary.

INTRODUCING WEST CHESTER

WEST CHESTER IS A MULTI-PURPOSE COLLEGE with a student body of more than 5,400 full-time undergraduates. It is the second largest link in the system of fourteen institutions of higher learning which the Commonwealth owns and maintains for the youth of Pennsylvania. The College offers the Bachelor of Arts, Bachelor of Science, Bachelor of Music, Master of Arts, Master of Science, and Master of Education degrees. Its objectives are to prepare teachers for Pennsylvania's public schools and to provide a liberal arts education for its youth.

The B.S. in Education degree is given in four basic curricula—elementary, secondary, music education, and health and physical education—and in one area (speech pathology and audiology) of special education. Degree curricula for public school nurses and dental hygienists are also provided. The College has a program of courses designed to meet certification requirements in the field of safety education and in the special education fields which train for the teaching of mentally retarded and physically handicapped children.

West Chester also maintains an extensive two-track program for teachers-in-service. One phase is composed of late-afternoon, evening, and Saturday-morning courses for those desiring to satisfy various professional needs, including certification requirements. The second is a graduate program (see below).

The College was officially approved by the State Council of Education for the purpose of offering a liberal arts program, effective September, 1962. The four-year program leads to a Bachelor of Arts degree in arts and letters, social sciences, sciences, mathematics, and music; to the

Bachelor of Music; and to the Bachelor of Science in Business Administration.

The continued growth and improvement of the College's curricular offerings is an ongoing concern of the Administration and the faculty. Under the leadership of the Dean of Faculty and Academic Affairs and the Academic Affairs Council, periodic evaluations are made, with emphasis on both subject matter content and methods of teaching. Special *ad hoc* committees make continuous study of a broad range of curricular problems and report their findings and recommendations to the faculty and the Administration.

The various programs at West Chester are comprehensive and designed to satisfy the intellectual, physical, and spiritual needs of all students. A wide span of extracurricular activities affords each student opportunities to mingle purposefully with his fellow students and his faculty, and to seek the fullest expression of his talents and capacities.

WEST CHESTER'S HISTORY

The present College traces its history back to the West Chester Academy, founded in 1812. Since then, an educational institution bearing the name of West Chester, and figuring importantly in the history of teacher education in Pennsylvania, has been in existence. The College has acquired its present proportions through a series of changes, largely determined as the Commonwealth assumed increasing responsibility for the education of the youth of Pennsylvania.

West Chester Academy was classed as a "state-aided County Academy." It was non-sectarian and privately owned. James Pyle Wickersham, the nineteenth century educator and diplomat, once spoke of it as "for more than fifty years one of the leading schools of its class in eastern Pennsylvania."

In 1869, under encouragement from the Commonwealth, the Academy was closed, and its properties were sold, to make way for a district normal school. Funds from the sale helped to finance the West Chester State Normal School which, on September 25, 1871, opened the doors of its single stately building to 160 students. (That first building, with wings added, came to be known as Old Main. After nearly a century of service, it is now due for demolition.) West Chester State Normal School con-

tinued as a privately owned but state-certified institution until 1913, when it became the first of the Pennsylvania normal schools to be owned outright by the Commonwealth.

In 1927, Pennsylvania initiated a four-year program of teacher training and named the school West Chester State Teachers College. The Legislature paved the way for an even broader program on January 8, 1960, when the College acquired its present name.

LOCATION OF THE COLLEGE

West Chester State College is in West Chester, a town which has been the seat of government in Chester County since 1786. With a population of 16,500, the Borough proper is small enough to have the pleasant aspects of a tree-shaded American town, large enough to contain essential services and the substance of a vigorous community, and old enough to give the student first-hand touch with America's early history.

Students may walk to West Chester's many churches. West Chester has excellent stores and shops, and a fine hospital. The heart of the town is its courthouse, a Classical Revival building designed in the 1840's by Thomas U. Walter, one of the architects for the Capitol in Washington, D.C. Where the courthouse stands, a crossroads hamlet existed for years before the American Revolution. West Chester's first settlers were largely members of the Society of Friends who came to the Colony under William Penn's persuasion. These colonists and their descendants were leaders in the fashioning of a community of grace and charm, and in the development of a culture which produced a remarkable number of artists, writers, and scholars. The imprint of these flowering years—the first half of the nineteenth century particularly—is still evident, though the town is becoming the heart of a suburban area linked with Philadelphia.

In this growing area, described as Greater West Chester, students of the social sciences find abundant opportunities to use the real world as a laboratory for the study of local, county, and regional government in an era caught in dynamic change.

The proximity of Philadelphia (25 miles east) and of Wilmington (15 miles south) puts the resources of both cities in convenient range. West Chester is near Valley Forge, the Brandywine Battlefield, Longwood Gardens, and other historic attractions of Chester County.

Route 3 (the West Chester Pike) connects West Chester with Philadelphia. From the Pennsylvania Turnpike, the campus is nine miles south of the Downingtown Interchange (via Route 100 South). Red Arrow buses from Philadelphia and Short Line buses from the Paoli station of the Penn Central railroad offer public transportation to West Chester.

WEST CHESTER'S EXPANDING CAMPUS

In its ninety-eight years, West Chester has had three surges of expansion. The third, begun a decade ago, has created a new West Chester. The old "quad," though changed and changing, retains old West Chester's particular charm, compounded of towering trees, green space, and the strong lines of its stone buildings.

But under an expansion program which will figure at some $65,000,000 upon completion in the early 70's, the Commonwealth has transformed West Chester—given it the shape and character of a great institution of learning, equipped to serve Pennsylvania students in years when the thrust of education demands both adequate and new kinds of facilities. Before the 1960-1972 Comprehensive Plan is fully realized, all but two (Old Library and Old Demonstration School) of the serpentine stone buildings, whose curiously green stones were quarried here in Chester County, will be demolished. They have outlived their usefulness.

Architecturally, West Chester is increasingly a blend of the new and the old, with Classical Revival, Gothic, and contemporary building forms speaking both of a strong past and an exciting future. The College now contains both North Campus, spanning out from the old quad, and the entirely new South Campus, which has risen on rolling and spacious farmlands off New Street, half a mile southward. Here, much of the vast new complex of the School of Health and Physical Education will be in use in 1969-1970. Along with the new Francis Harvey Green Library, Schmucker Science Center and the Learning Research Center are contemporary additions of major importance. A complex of high-rise residence halls, with four completed and two more in process; Lawrence Center, where the dining halls and many other student facilities are located; and a maintenance building are among other new properties of the College. The new fine arts building (Lloyd C. Mitchell Hall) is expected to be in use in the 1969-1970 academic year.

Among the College's older buildings and halls, some of which have been extensively modernized, are Anderson Hall (1938); Old Recitation Hall (1892); Old Library (1902); Ehinger Gymnasium (1930); Hollinger Field House (1949); the Special Education Building (1960); Old Demonstration School (1899), now used for offices; Swope Hall (1959), which houses the School of Music; Reynolds Hall (1871), which contains the infirmary; "Tanglewood," an eighteenth-century home which is the residence of the President; and—importantly—Philips Memorial Hall (1925), with its large auditorium, executive and administrative offices, and various cultural facilities, including the Philips Memorial Library.

FRANCIS HARVEY GREEN LIBRARY

West Chester students enjoy the space, beauty, conveniences, and modern equipment of the new Francis Harvey Green Library. Opened in the fall of 1966, the handsome contemporary building provides a setting highly conducive to study and research. The present building is the first of two phases, the second of which is now being planned.

In addition to a collection of approximately 180,000 volumes, the Francis Harvey Green Library has an enviable collection of microfilm and microfiche and subscribes to more than 1,900 periodicals and newspapers. The library's curriculum laboratory houses an extensive collection of courses of study and textbooks as well as a wide variety of audio-visual materials. The College library also has the four folios of Shakespeare's plays (1623-1685), and the Sanderson *Biographies of the Signers of the Declaration of Independence,* with autographs of the signers. Its collection of sheet music, scores, and records is housed in Swope Hall. The library is affiliated with the Union Library Catalogue of the Philadelphia Area.

THE BUREAU OF EDUCATIONAL MEDIA SERVICES

The College Educational Media Bureau provides assistance for instructional personnel who are planning and producing educational media used in their courses. The Bureau supplies the campus with audio-visual equipment such as motion pictures and film strips, projectors, tape recorders, record players, etc. The Bureau also houses the College Film Library and provides procuring services for film and other materials from outside sources. The closed-circuit television system is operated by the

Bureau, and segments of appropriate courses are taught by television. Another service of the Bureau is production in the areas of motion pictures and still photography, recording, duplicating, and overhead transparencies.

THE DELAWARE-CHESTER REGIONAL INSTRUCTIONAL MATERIALS CENTER

The Delaware-Chester Regional Instructional Materials Center is housed on the campus. The Center—the first of such joint regional centers to be formed in Pennsylvania under a State-supervised plan—has nearly 3,700 films and 1,700 titles dealing with many fields of elementary and secondary education. Membership is limited to the Delaware and Chester County public schools, who pay on a per-pupil basis. Thirty-five school districts, with a total enrollment of approximately 108,000, are members. College faculty and student teachers may make use of the Center's facilities.

BUREAU OF RESEARCH AND RELATED SERVICES

The Bureau of Research and Related Services fosters the development of basic, applied, and institutional research and provides facilities for the tabulation and analysis of research data. The research function of the Bureau encompasses studies initiated by the faculty and administrative staff of the College as well as cooperative endeavors carried on under the joint sponsorship of the College and various external educational agencies and foundations. The Bureau assists faculty and students to secure financial support for their research projects. A computer center, statistical laboratory, and research facilities are maintained in the Learning Research Center.

Data processing services include the tabulation and summarization of information essential to the operation of the various administrative divisions of the College and the statistical treatment and computer analysis of experimental data obtained from faculty and student research activities. The Department of Mathematics offers courses in the computer science area.

THE EDUCATIONAL DEVELOPMENT CENTER

The Educational Development Center is maintained on the campus of West Chester State College, with a cooperating office on the campus

of Cheyney State College. Its purpose is to serve public, private, and parochial schools and agencies, and public and private teacher education colleges within Bucks, Chester, Delaware, and Montgomery Counties. The Center is part of a state-wide network of education improvement agencies established by the Department of Public Instruction, Commonwealth of Pennsylvania, to encourage regional cooperation as a means of improved education.

Its services include (1) publication of *Curriculum Highlights,* a newsletter, (2) sponsorship of educational seminars, and (3) assistance to local schools and communities in securing grants and conducting programs under Title I and Title III of the Elementary and Secondary Education Act and Title V of the Educational Professions Development Act (P.L. 90–35). Participation by educational agencies is on a voluntary basis. The Center, established in 1965, replaces the former Curriculum Area Nine. The program is directed by an Area Curriculum Coordinator on each of the two campuses.

THE HIGHER EDUCATION OPPORTUNITY PROGRAM

The Higher Education Opportunity Program (HEOP) is an educational experiment, launched in the summer of 1968, which seeks to give disadvantaged high school students the fullest possible opportunity to progress successfully in college study. From its service area, the College selected a racially integrated group of students who, owing to deficiencies in their socio-economic backgrounds, would normally lack the means, the incentive, and the academic qualifications for admission to West Chester. These students are studying in an academic and cultural environment designed to compensate for various deficiencies and to give the participants the maximum prospect of realizing potentials signaled by their performances in high school.

A lightened credit load, tutorial and remedial help, special class sections, and a delayed choice of the concentration are among the academic aspects of HEOP, which also includes intensive counseling and a rich exposure to art, music, drama, literature, and sports. Indication that the program holds the ingredients for success is found in the fact that, save for one withdrawal because of injuries, the entire group continued from the introductory summer sessions into the fall term of the 1968-1969 academic year.

OFFICE OF CULTURAL AFFAIRS

In answer to a need that had mounted with the College's increasing enrollment and expanding activities, the College, in the summer of 1968, created an Office of Cultural Affairs and appointed a director for it. Functioning as the center for the development, scheduling, and coordination of all cultural events, the Office has placed an important new focus upon the multitude of special programs which keep lights burning in at least one assembly hall virtually every night of the year. The constantly increasing events which clear through the Director of Cultural Affairs range over the areas of music, art, dance, cinema, and theater arts, on to lectures, institutes, symposiums, and clinics which supplement the educational experiences of students in a multi-purpose institution.

URBAN EDUCATION PROGRAM

The critical demand for teachers with the special skills and dedication necessary for effective work in the schools of American cities motivated the College to develop an urban education program which was fully under way in the fall of 1968-1969. Coordinated in the School of Education, the program provides specialized courses and urban teaching experiences which both elementary and secondary students may incorporate into their curricula. Additional information about this program is given under the School of Education.

THE SPEECH AND HEARING CLINIC

The Speech and Hearing Clinic of West Chester State College provides evaluation and therapy for children with speech and hearing handicaps from the Borough of West Chester and surrounding areas. The clinic also serves as a speech improvement center for College students who need help in meeting minimal speech standards. Both groups may use these services at no charge. The Department of Speech and Theatre conducts the clinic, located at 620 South High Street.

STUDY IN EUROPE

West Chester offers two study experiences which take place in Europe. The Junior Year Abroad Program, sponsored by the College, permits prospective teachers of French to spend two undergraduate semesters at the

University of Montpellier in France. The program is described under the Department of Foreign Languages. The second project is an annual European summer tour conducted by the Division of Social Sciences. The tour includes seminars and lectures along the route, which crosses through the past and present of some ten European countries. The touring students visit museums, galleries, and cathedrals and attend operas, music festivals, and other cultural events. Six credits in history, the social sciences, or arts and letters may be earned during the six-week tour, which is open to all college students and graduates, in-service teachers particularly. A faculty member from the Division is always in charge. Details may be obtained from the Division of Social Sciences.

GRADUATE STUDIES

For the past decade, West Chester has offered a full-time program of graduate studies, taking place in late-afternoon, evening, and Saturday-morning classes during the fall and spring semester and during the summer sessions. The program leads to the Master of Education degree in the following fields: biology, chemistry, elementary education, English, French, geography, German, guidance and counseling, health and physical education, instructional media specialization (audio-visual), Latin, mathematics, music education, physical science, physics, social sciences, and Spanish.

Under approval given in 1968-1969 by the Department of Public Instruction, West Chester now offers the Master of Arts degree in biology, English, history, and mathematics, and the Master of Science degree in chemistry and health and physical education. Pending approval by the D.P.I., the College will also offer in 1969-1970 the Master of Arts in French, German, Latin, and Spanish; the Master of Science in Educational Research; and the Master of Music and Master of Arts in music.

The program is so arranged that an in-service teacher may secure certification or earn his degree while continuing usual professional duties. The graduate program also permits an in-service teacher to improve his position on salary schedules which recognize graduate study. At the end of the 1967-1968 academic year, West Chester had granted a total of 483 degrees. A graduate studies bulletin and other information about the graduate program may be secured from the Dean of Graduate Studies.

SUMMER SESSIONS

West Chester State College offers a program of study for both undergraduates and graduates at summer sessions extending through twelve weeks. The sessions are divided into three periods: the Pre Session of three weeks, the Regular Session of six weeks, and the Post Session of three weeks. No student is allowed to secure more credits than the number of weeks in a session unless he has special permission of the Dean of Undergraduate Studies (for undergraduates) or the Dean of Graduate Studies (for graduates). Detailed information about the undergraduate studies summer program may be obtained from the Director of Admissions. Requests for information about graduate studies should be directed to the Dean of Graduate Studies.

THE ALUMNI

West Chester has a large and active alumni association whose members demonstrate a marked devotion to the College. The Association holds its yearly meeting during the annual Alumni Day, which takes place shortly before Commencement and is always well attended. Branch organizations are maintained in a number of communities. The Officers of the West Chester State College Alumni Association are shown following the faculty directory.

ADMISSION TO WEST CHESTER

ADMISSION TO WEST CHESTER STATE COLLEGE is generally based upon the satisfactory completion of the college preparatory program in the secondary schools. In exceptional circumstances an outstanding student may enter from another curriculum, but in order to compensate for certain gaps in his academic background he will have a heavy and demanding program of study. Before accepting him, the College will require evidence of superior scholarship and capabilities.

No more than five per cent of each Freshman Class at West Chester may be composed of out-of-state students. They are chosen on a highly selective basis. In addition to meeting the College's requirements they must have special abilities, particularly in fields where the demand for teachers is acute and in certain professions and industries where college-trained personnel is urgently needed.

The student who has decided to explore the College is invited to visit the campus, talk with West Chester students, and meet faculty members.

Once he has embarked upon the admissions procedure at West Chester he ought to approach his conferences comfortably, knowing that they are a mutual exploration. Finally, he should understand that the College's decision on his candidacy is not a rigid and impersonal matter but a thoughtful equating of records, tests, and personal judgments.

West Chester welcomes qualified students, faculty, and staff from all racial, religious, ethnic, and socio-economic backgrounds.

SECONDARY SCHOOL REQUIREMENTS

The candidate must furnish evidence of graduation, with satisfactory scholarship, from an approved secondary school. In cases where the

student has attended a non-accredited school, or his preparation has been unusual in some other way, the College will submit his credentials to the Credentials Evaluation Division of the Pennsylvania Department of Public Instruction, which will determine whether they are acceptable.

COLLEGE BOARD EXAMINATIONS

Required. Every candidate must take the College Entrance Examination Board's Scholastic Aptitude Test (SAT) and its English Composition Achievement Test.

Those seeking admission to the secondary education curriculum are also required to take the achievement test related to their intended major field. If that field is English, and if they have had a foreign language, they must take the foreign-language achievement test.

Applicants for an arts and sciences program are required to take the achievement test related to their major field and, if they have had a foreign language, to take the achievement test in that language.

Candidates for the Bachelor of Arts program in the School of Music must also take a foreign-language achievement test, provided they have studied a foreign language.

Recommended. Candidates for all other curricula are urged to take one achievement test of their choice in addition to the required English test.

Provisional Approval. Students with satisfactory scores on the Scholastic Aptitude Test may be provisionally approved for admission, with the understanding that their subsequent achievement test scores must be adequate.

Policies for Unusual Scores. Students with conspicuously high English Composition Achievement Test scores may be exempted from the first required course in English composition their freshman year. Conversely, students admitted with low scores in the English test will have to take a remedial English course, either in the summer session preceding their freshman year or during their first semester.

Arranging for Tests. Application forms and such pertinent information as "time and place" are supplied by high school guidance counselors, or may be obtained from the College Entrance Examination Board, P. O. Box 592, Princeton, New Jersey 08540.

When Tests are Given. College Board Examinations are offered in December, January, March, May, and July, but applicants who take the Scholastic Aptitude Test no later than January will be given preference

for September admission. Achievement tests in the fields of English, foreign languages, mathematics, and social science should be taken in December, January, or March. Achievement tests in such one-year subjects as chemistry and physics may be taken in May.

Submitting Scores to West Chester. The scores must be sent directly to the Office of Admissions by the College Entrance Examination Board. In all cases, junior or senior year scores will be accepted.

REQUIRED REFERENCES

Health. The College requires evidence from the student's physician that the applicant is in good physical condition. Forms for the necessary health examination are supplied by the College at the proper time.

If an applicant has physical or health handicaps so major as to prevent him from pursuing his studies independently and competently, the College may conclude that West Chester is not the suitable place for him to undertake college work.

Character. A written evaluation of the applicant must be included with the transcript. The evaluation may come from the principal, a guidance staff member, or another school official, and should appraise the student's character, personality, interests, abilities within the school community, and his promise of development.

REQUIRED INTERVIEWS AND CONFERENCES

Before making a favorable decision upon an application, the College asks the student to come for either an interview or an admissions conference.

CITIZENSHIP REQUIREMENT FOR TEACHERS

To be eligible for a teacher's certificate in Pennsylvania, a student must be a citizen of the United States. Exception is made for foreign languages, which citizens of other countries may be certified to teach on a provisional (three-year) basis.

ADDITIONAL REQUIREMENTS AND RECOMMENDATIONS IN SPECIFIC FIELDS

Foreign Languages. Although previous study in foreign languages is not required, the College views it as highly desirable for those who intend to teach in the fields of foreign languages or English and for those pursuing an arts and sciences program.

Mathematics. Students intending to elect mathematics as their concentration must present three secondary units of mathematics, among them, algebra and plane geometry.

Health and Physical Education. See School of Health and Physical Education for its additional admissions requirements.

Music. See School of Music for its additional admissions requirements.

HOW AND WHEN TO APPLY FOR ADMISSION

Candidates may obtain forms and instructions by sending the request form at the back of this catalogue to the Director of Admissions.

Candidates for the fall semester are urged to initiate the application procedure immediately after completing their junior year of secondary school. Facilities permitting, the Director of Admissions will accept applications throughout the winter and spring of the year in which admission is desired.

Candidates for the spring semester should submit the request by November 1. They must take their required College Board tests no later than July.

Out-of-state students should write to the Office of Admissions, giving the reasons for their interest in West Chester, their desired field of study, their scholastic records, and their scores on the College Board achievement tests.

Fees. Information pertaining to required fees may be found in the section entitled Expenses.

Last Day for Admission of New Freshmen. All application procedures must be completed and in the Office of Admissions by August 1 for a fall semester or December 15 for a spring semester. If enrollment quotas become filled before these dates, admissions will be closed.

Notice of Decisions. Candidates will hear from the Director of Admissions as soon as possible after decisions on their applications are reached. The secondary schools of those seeking admission as freshmen will also be notified.

READMISSION OF FORMER STUDENTS

Students who have withdrawn from West Chester for acceptable reasons may ask the Office of Admissions for an application for readmission. Those who have attended any institutions of higher learning since leaving West

Chester must request those institutions to forward transcripts of their records to the Office of Admissions.

Students who intend to enroll in student teaching in the first semester of their readmission must file an application for student teaching with the Director of Student Teaching at least four months before the date of their expected readmission.

Students who were dismissed or asked to withdraw for academic reasons, and those who withdrew from the College with a scholastic index less than required for their classification, will not be considered for readmission as full-time students for at least one academic semester, and then only if their scholastic index has been raised by attendance at evening classes or summer sessions at West Chester to that required for their classification.

Readmission to West Chester as a degree candidate is not possible if the student has been permanently (i.e., twice) dismissed because of academic failure.

All readmission applications must be filed not later than August 1 for the fall semester or December 15 for the spring semester. If enrollment quotas become filled before these dates, admissions will be closed.

(Students seeking readmission are advised to consult carefully the section of this catalogue entitled Academic Information.)

ADMISSION OF COLLEGE GRADUATES SEEKING TEACHING CERTIFICATES

Graduates of other colleges who wish to complete the requirements for a teacher's certificate may apply for admission as special students. Application forms and information may be secured from the Director of Admissions. Applications and credentials must be filed by August 1 for the fall semester and December 15 for the spring semester. Admissions will be closed prior to these dates if enrollment quotas become filled.

College graduates seeking teaching certification at West Chester must apply for student teaching immediately after receiving a letter of admission. Approval for student teaching will depend upon the satisfactory completion of the prerequisite professional education courses. Only those who apply early will have a teaching station reserved. Student teaching application forms are available from the Director of Student Teaching.

ADMISSION OF TRANSFER STUDENTS

Students who have previously been enrolled in any institution of collegiate rank, no matter how briefly, are classified as transfer students. A cumulative grade point average of 2.00 or higher is required for their admission to West Chester.

No more than five per cent of the College's transfer enrollment may be students who are not legal residents of Pennsylvania. Out-of-state students will be chosen selectively, on the basis of special abilities and in the light of particular needs for teachers in certain fields and for college-trained personnel in various professions and industries.

The last day to qualify for admission to the fall semester is August 1 and for the spring semester, December 15. If quotas are filled prior to those dates, enrollment will be closed earlier. Actually, September quotas are usually reached in May.

An applicant must file transfer application forms, obtainable from the Office of Admisions, and must also see that the Director of Admissions receives the following material:

(1) An official transcript of record from each institution attended. To be acceptable, this must show honorable dismissal. If a preliminary (incomplete) transcript is submitted, it is the student's responsibility to have a completed transcript filed later.

(2) A letter of recommendation from the Dean of Men (for men) or the Dean of Women (for women) of the last college attended full-time. To qualify the student for admission, the letter must state that the student's disciplinary record was entirely satisfactory.

(3) Two letters of recommendation from persons (not relatives) who have known the applicant well in his home community.

(4) A letter from the applicant, explaining frankly and fully his reasons for wishing to transfer to West Chester.

(5) Students with less than two semesters of college experience (less than 30 semester hours of credit) must supply College Board Scholastic Aptitude Test scores. These must meet the College's minimum for the curriculum concerned.

It is the applicant's responsibility to ask the Office of Admissions for an appointment for the required interview, after an application, including either a preliminary or final transcript, is on file.

Students enrolled in other institutions during the fall semester, and applying for admission the following spring semester, must supply mid-term grades for the semester in progress.

Admission of qualified transfer students is subject to the availability of a place in the classes to which they should be assigned. Students other than commuting students will be approved only if residence facilities are available.

(Students seeking admission as transfer students are advised to consult also the section entitled Academic Information.)

ADVANCED CREDIT REQUIREMENT

Advanced credit may be granted for equivalent courses completed in *accredited* institutions of collegiate grade.

Credit will not be transferred if the course grade is the lowest passing grade of the institution assigning it. If D is the lowest passing mark, courses so marked will not be accepted. If numerical marking is used, courses will be accepted when the grade is ten or more points above the passing mark.

Applicants from collegiate institutions (including community colleges and junior colleges) which are *not accredited* by one of the six Regional Associations in the United States will be considered for admission under the following regulations:

(1) An applicant's cumulative grade point average must be 2.00 (C) or better and, in the cases of community and junior colleges, must meet their recommended mark for transfer.

(2) The evaluation of *academic* courses listed on transcripts from an institution not accredited by one of the six Regional Associations will be made in accordance with the recommendations of the American Association of Collegiate Registrars and Admissions Officers in their *Report of Credit Given by Educational Institutions.* Thus, if the *Report* recommends that an institution's credits be recognized for transfer, West Chester will accept them for equivalent courses, provided the grades earned are C or better.

(3) The evaluation of courses applying to the special areas of health and physical education and music will be made by the respective Schools in accordance with their policies as follows:

Health and Physical Education. Under the provisions of the national professional association, all colleges offering health, physical education, and recreation have reciprocal transfer relationships. Thus, a student wishing to transfer in

health and physical education will receive transfer credits in the major field in terms of major courses satisfactorily passed (C or better) at a college accredited by the National Council for Accreditation of Teacher Education and the American Association for Health, Physical Education, and Recreation. Academic courses will be evaluated as stated in 2, above.

Music. Credit will be allowed only on the basis of music tests for music courses. Academic courses will be evaluated as stated in 2, above.

(4) Not more than two years of work (64 hours of credit) will be allowed for courses taken at a community college or junior college.

(5) Applicants must submit College Board Scholastic Aptitude Test scores which meet the minimum established by the College for the curriculum concerned.

(6) The West Chester State College graduation requirements in effect at the time of admission will apply to transfer students unless they do not graduate within four years of enrollment. In such an instance, the Dean of Undergraduate Studies may make course substitutions which he deems acceptable for degree requirements.

(7) Applicants shall complete the approved transfer procedure for applying for admission.

West Chester does not allow credit for courses taken through correspondence.

PRE-ADMISSION POLICY

Not more than nine semester hours of course work may be completed at West Chester prior to formal admission to a program. A minimum cumulative grade point average of 2.00 must be earned in the pre-admission courses in order to qualify for admission to a program.

The College requires a transcript showing graduation from an approved secondary school, or equivalent preparation as approved by the Pennsylvania Department of Public Instruction.

The student must apply for admission in the Office of Admissions. When accepted, an applicant is given a letter of admission. This is his authority to register. Registration shall be completed under the instruction of the Dean of Undergraduate Studies.

ACCEPTANCE OF AN OFFER OF ADMISSION

Each applicant who accepts an offer of admission to the College must sign an acceptance form which includes the following statement: "I hereby submit myself to the jurisdiction of the College and agree to be governed by the rules and regulations of the College now existing or to be adopted during the period in which I am enrolled as a student."

POLICY ON EARLY ADMISSIONS

Under the early-admissions policy, certain highly qualified students may enter West Chester as freshmen upon completing their junior year of secondary school. The policy is designed to let students with high academic achievement and unusually mature personal development undertake a college program when it is evident that they will benefit more from it than from the senior year in secondary school. In determining whether a student is ready for the college program and the college community without the senior year in secondary school, the College carefully evaluates a number of factors beyond the attainment of high grades.

Academic Qualifications. The student must rank in the upper five per cent of his class in an accredited secondary school. He must have pursued the college preparatory program and carried five major academic subjects for the ninth, tenth, and eleventh grades. His College Board Examination scores need to be at least 600 and to include two elective achievement tests in addition to SAT and the English Composition test.

Recommendations and Interviews. Exhaustive recommendations from his faculty are essential, as are pertinent interviews at the College.

Students whose records indicate that they might qualify for early admission are advised to write to the Director of Admissions for additional information. The closing date for application is June 1.

AUDITING PRIVILEGES

See paragraph under *Auditing Privileges* in Academic Information.

EXPENSES

Expenses are Subject to Change

FEES

BASIC FEE FOR PENNSYLVANIA STUDENTS

The basic fee* for full-time students who are legal residents of Pennsylvania is $175 per semester. For part-time students (those taking eleven or less semester hours) the basic fee is $15 per semester hour (minimum $45).

BASIC FEE FOR OUT-OF-STATE STUDENTS

The basic fee* for all out-of-state students is $25 per semester hour. With a sixteen-credit-hour load, this amounts to $400 per semester. The minimum fee for out-of-state students on a part-time basis is $75.

Except for the basic fee, the expenses of out-of-state students are the same as those of Pennsylvania students.

SPECIAL CURRICULUM FEES

In addition to the basic fee, students enrolled in the School of Music or the School of Health and Physical Education pay special curriculum fees as follows:

School of Music: $45 per semester (prorated for part-time students).

School of Health and Physical Education: $18 per semester (prorated for part-time students).

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* The basic fee covers registration, the keeping of student records, library services, student welfare, health service (other than special nursing or quarantine), and laboratory facilities.

HOUSING FEE

The housing fee for students living in campus residence halls is $324 per semester, and covers room and meals while the College is in session. (Holiday and recess schedules may be noted on the College Calendar.) Resident students living in college extension houses pay room rent in advance, but directly to the private householder. The College charges these off-campus resident students $10 weekly for their meals in the College dining hall.

FINANCIAL OBLIGATIONS

Students and their parents or guardians are asked to observe that all fees and costs are subject to change without notice, and that, since the acceptance of a student is for a semester, financial obligations are accordingly for a semester.

At his discretion, the President may authorize payments on a monthly basis for worthy full-time students whose circumstances require a deferred payment schedule. Residence in Pennsylvania is not essential to this arrangement. Requests for a deferred payment schedule should be sent to the Director of Business Affairs.

ADVANCE PAYMENT OF HOUSING AND BASIC FEES

All students are required to pay their housing and basic fees in advance of each semester. The College sends bills for these fees preceding each semester. If payment is not made within the stipulated period, the student is dropped from the admissions list or the rolls of the College and loses all privileges and priorities, including his room reservation.

For the academic year 1969-1970, payments will fall due as follows:

Fall Semester:	July 28, 1969
Spring Semester:	December 29, 1969

Checks should be made payable to the "Commonwealth of Pennsylvania" and mailed to the Office of Business Affairs, West Chester State College, West Chester, Pa. 19380.

APPLICATION FEE FOR NEW STUDENTS

An application fee of $10 is required of all applicants. It is not refundable under any circumstances and is not credited to a student's account. The application fee must be paid by cashier's check or money order (not personal check or cash).

ACCEPTANCE FEE FOR NEW STUDENTS

The student accepts an offer of admission by paying an additional $25 as a guarantee of his intention to enter the College in the semester indicated. This fee is not refundable, but upon enrollment it is credited toward the student's basic fee. The acceptance fee must be paid by cashier's check or money order.

ADVANCE REGISTRATION FEE FOR RETURNING STUDENTS

Returning students affirm their intention to register for the immediate semester by their advance payment of semester fees (see above).

DAMAGE FEE

Students are held responsible for damage, breakage, loss, or delayed return of college property. Beyond that occurring from normal use, damage to furniture, furnishings, or buildings will be charged to any student committing it. If a student damages college property while using an appliance not provided by the College, he may be charged a proportionate amount of the repair cost.

In the same manner, students living in approved college extension houses are held responsible for the payment of the damage fee to private householders.

PRIVATE MUSIC INSTRUCTION FEES

Students enrolled in the School of Music pay no extra fees for required private instruction in voice, piano, or band or orchestral instruments, nor for the use of pianos for practice. Music majors are, however, charged for the following:

(1) Pipe organ for practice, one period each weekday, $36 per semester.
(2) Band or orchestral instruments, $6 rental per semester.

Elementary Education Majors whose Area of Interest is Music—charged a lesson fee of $45 per semester if they elect private instruction in voice, piano, organ, or band or orchestral instruments. Pianos for practice are available at no charge. The rates for organ practice and use of band or orchestral instruments are those shown above for music majors.

Students in the Arts and Letters Program of the College of Arts and Sciences—charged at the same rates as elementary education majors (above).

All Other Students—charged a lesson fee of $24 each semester for one half-hour lesson per week, plus a $37.50 out-of-music curriculum fee per semester. A charge of $6 per semester is made for a daily practice period at the piano. The rates for organ practice and the use of band or orchestral instruments are those shown above for music majors.

MISCELLANEOUS FEES

Diploma Fee of $5. Required of degree candidates.

Record Transcript Fee of $1. Charged to students for the second and all subsequent transcripts of records. The $1. fee applies also to those not currently enrolled. (A cashier's check or money order is required.)

Late Payment Fee of $5. Charged for overdue payments required during the semester.

Late Registration Fee of $5. Required of students completing registration after the official registration date, or requesting a change of a course or courses after the official registration date.

Transient Lodging Fee of $1.58. Charged for overnight guests.

Additional Housing Fee of $2 *per week.* Required when one person is permitted to occupy a double room. (This privilege is given only in summer sessions.)

Auditing Fee. Auditors are charged the part-time basic fee of $15 per semester hour if residents of Pennsylvania, or $25 per semester hour if out-of-state students. Minimum fees are $45 and $75 respectively. (See *Auditing Privileges* in Academic Information.)

POLICIES ON REPAYMENTS AND REFUNDS

(1) Students who withdraw from the College after paying their semester fees will not be eligible for a refund of the room fee ($144) unless they give written notice at least two weeks in advance of the first date of registration to: (a) the Office of Undergraduate Studies and (b) the Office of Business Affairs.

In any circumstance, students who withdraw after paying their semester fees are subject to a legal forfeit of $25.

(2) Resident students (including off-campus resident students) who decide to change their housing status to commuting students will likewise not be eligible for a refund of their room rent ($144) unless they give written notice, at least two weeks in advance of the first date of registration, to (a) the Dean of Women or Dean of Men and (b) the Office of Business Affairs.

(3) Repayments will not be made to students who are temporarily or indefinitely suspended, dismissed, or who voluntarily withdraw from the College.

(4) In cases of personal illness, certified by an attending physician, or for other reasons which may be approved by the Board of Trustees, the College will refund the proportion of the housing and other basic fees for the part of the semester which the student does not spend in the College. No refund will be made for an absence of less than two weeks. Application for a refund must be made in writing to the Office of Business Affairs.

(5) Repayments of the application fee or acceptance fee will not be made under any circumstance.

DELINQUENT ACCOUNTS

No student will be enrolled, graduated, or given a transcript of his record until all charges due at the particular time are paid.

ADDITIONAL COSTS

COMPULSORY ACCIDENT INSURANCE

A policy costing approximately $10 per year is compulsory for all students in health and physical education and for those participating in various athletic programs.

INTRACOLLEGIATE GOVERNMENTAL ASSOCIATION FEE

A student activities fee of $22 per semester is collected from all full-time students, and administered through a cooperative organization under regulations approved by the Board of Trustees. It covers the cost of the student activities program in such areas as athletics, various musical organizations, lectures, entertainment, and student publications. The student activities fee should be paid promptly upon receipt of the bill. Checks should be drawn to "IGA" and mailed to the Intracollegiate Governmental Association.

Part-time students may secure the benefits of the activities program, at their initiative, by paying the $22 fee at the College Bookstore.

BOOKS

Each student buys his own books and supplies. They are available at the college bookstore, at a cost of approximately $50 each semester.

GYMNASIUM UNIFORMS

Men Students in Health and Physical Education are required to buy athletic and gym outfits costing approximately $20 for the first semester and $25 for the third semester.

Women Students in Health and Physical Education must buy, for their first semester, uniforms costing approximately $40. Order forms are sent to each applicant upon her acceptance by the College. An additional expenditure of $15 is required of all sophomores.

All other students are required to purchase a regulation gym outfit. For the women students this includes a pair of blue shorts, a white shirt, a white sweat shirt, white socks, and canvas tennis shoes, costing altogether about $10. For men the outfit includes a pair of white shorts, a white T-shirt, white socks, and canvas gym shoes, at an approximate total cost of $10.

IDENTIFICATION CARDS (I. D. CARDS)

On the day of registration a charge of $1 is assessed for student identification cards, used to admit students to College functions sponsored by the Intracollegiate Governmental Association, and to the College dining room. The cards carry the student's photograph and show his home address, IBM number, and class. If lost, they may be replaced for $2.

COUNCIL DUES

Every student pays either a day Student or Resident Council assessment. For the 1968-1969 academic year these dues were $2.

CLASS DUES

Class dues constitute an obligation which every full-time student assumes upon admission, and must be paid at the time of registration. Each class determines its dues. For the 1968-1969 academic year they were: Freshman Class, $1; Sophomore Class, $10; Junior Class, $24.50; and Senior Class, $25.

FRESHMAN SWIM-SUIT RENTAL

All freshmen pay a swim-suit rental fee of $2, covering use of a suit throughout their undergraduate years.

SUMMARY OF YEARLY COSTS FOR FULL-TIME PENNSYLVANIA STUDENTS

[Because they vary, class dues and the cost of required gymnasium uniforms are not included in these schedules. The student may consult Additional Costs, above.]

All Curricula but Music and Health and Physical Education

a. Students Living on Campus	
Basic Fee	$350
Student Activities Fee	44
Books (approximately)	100
Room and Board	648
	$1,142
b. Day Students	
Same as above, minus Room and Board	$494

Health and Physical Education Curriculum

a. Students Living on Campus	
Basic Fee and Special Curriculum Fee	$386
Student Activities Fee	44
Books (approximately)	100
Room and Board	648
	$1,178
b. Day Students	
Same as above, minus Room and Board	$530

Music Curricula

a. Students Living on Campus	
Basic Fee and Special Curriculum Fee	$440
Student Activities Fee	44
Books (approximately)	100
Room and Board	648
	$1,232
b. Day Students	
Same as above, minus Room and Board	$584

PART-TIME STUDENTS (PENNSYLVANIANS)

Pennsylvania part-time students may calculate a summary of costs by developing the basic fee from the charge of $15 per semester hour (minimum $45). If enrolled in music or health and physical education, they will need to include their special curriculum fee, explained at the beginning of this section.

OUT-OF-STATE STUDENTS

Out-of-state students may calculate a summary of costs by developing the basic fee from the charge of $25 per semester hour (minimum $75). If enrolled in music or health and physical education, they will need to include their special curricula fee, explained at the beginning of this section.

EXPENSES AND FEES
UNDERGRADUATE SUMMER SESSIONS

Board and room is $18 a week. The activities fee for the Regular Session is $3.50, and for the Pre or Post Session, $1.75. The basic fee is $15 per semester hour of credit (minimum basic fee of $45 for legal residents of Pennsylvania for the Regular Session, or $22.50 for the Pre or Post Session). Out-of-state students pay at the rate of $25 per semester hour of credit (minimum basic fee of $75 for the Regular Session or $37.50 for the Pre or Post Session).

A special health-and-physical-education fee of $3 per summer course is applicable in courses — such as driver education — which utilize College equipment. Special music fees are applicable for students taking private instruction.

All summer-session fees are due and payable on the general registration dates. The following late fees are charged:

(1) A late pre-registration fee of $10 for failure to furnish the required pre-registration form by the Wednesday preceding any summer session.

(2) A change-of-course fee of $5 for a course change made after pre-registration.

(3) A late payment fee of $10.

FINANCIAL AID

THE COLLEGE'S comprehensive program of scholarships, grants, loans, and student employment enables many students with limited funds to meet their college expenses. Upon admission, students routinely receive information and forms enabling them to apply for aid if needed. Those requiring further assistance or advice may write to or confer with the Director of Financial Aid to Students, who administers the program.

College Scholarship Service. West Chester, as a participant in the College Scholarship Service (CSS) of the College Entrance Examination Board, subscribes to the Service's principle that the amount of financial aid should be based on the degree of financial need. Entering students seeking loans, employment, or a Pennsylvania Higher Education Assistance Agency scholarship must submit a Parents' Confidential Statement (PCS) by May 1 to the College Scholarship Service, P.O. Box 176, Princeton, New Jersey 08540. The necessary form may be obtained from a secondary school, the Director of Financial Aid, or the College Scholarship Service.

Unless other specifications are indicated, requests for the scholarships, loans, and employment opportunities described here are made to the Director of Financial Aid.

SCHOLARSHIPS

ALPHA SIGMA PHI SCHOLARSHIP. An annual $100 award given by the Alphite Society to a woman student chosen on the basis of citizenship, scholarship, and need.

BETHLEHEM ALUMNI CLUB SCHOLARSHIP. $200 given annually to a Bethlehem High School or Bethlehem Catholic High School senior who will enter West Chester the following year.

James B. Bonder Memorial Scholarship. An annual award given to a deserving member of the football squad by Mrs. James B. Bonder, alumni, and friends, in memory of Dr. Bonder, former football coach and faculty member, who died in 1965.

Laury Samuel Brokenshire Scholarship. This $100 scholarship is presented annually as a memorial to Laury Brokenshire, a member of the class of 1959, by his parents, Mr. and Mrs. James R. Brokenshire, of Reading. It is awarded to an outstanding Junior Class music student selected by the School of Music faculty.

Delaware County Federation of Junior Women's Clubs Scholarship. A yearly award of about $100, given to one or more Junior Class women residing in Delaware County.

Dr. Robert E. Drayer Memorial Award. An annual award for the senior who graduates with the most distinguished record in history, in memory of Dr. Robert E. Drayer, Assistant Professor of History, who died in 1968. The Department of History selects the recipient.

Friars Memorial Scholarship. This $100 annual scholarship honors West Chester students who died in World War II. The recipient is a man in the Junior Class.

Arthur E. Jones Memorial Scholarship. Talent in the vocal-choral area and scholarship are among considerations for an annual award to a music student in remembrance of Dr. Arthur E. Jones, former Chairman of Choral Music. To be eligible, a student must be a junior who has completed a course in choral conducting. The Department of Vocal and Choral Music selects the recipient.

School of Health and Physical Education Scholarship. Income from the Quadrennial Show endows $100 annual scholarships (generally three) awarded to outstanding second-semester sophomores in health and physical education.

Kift-Mullen Memorial Scholarship for Future Teachers. $200 given annually to a junior or senior who is a graduate of Allentown High School or Allentown Central Catholic High School. The Robert L. Kift-Thomas R. Mullen, Jr. Memorial Fund, maintained by Lehigh Structural Steel Company, Allentown, is the donor.

Martin Luther King, Jr. Memorial Award. An annual award given to one or more Afro-American students by the West Chester campus chapter of the N.A.A.C.P. in honor of the late Dr. Martin Luther King, Jr. Applicants are reviewed by the campus chapter of N.A.A.C.P.

Samuel Martin Scholarship. Available to students of limited means who are preparing to teach. Children of Friends or students in sympathy with Friends are preferred. Applications are made to Elbert N. Pusey, Esquire, 30 West Market Street, West Chester.

Sarah H. Mellor Scholarship Fund of the Chester County Council of Parent-Teacher Associations. A $100 award, made yearly to one or more Chester County students in memory of a former West Chester student, teacher, and Trustee.

Music Sophomore Scholarship. Three $100 scholarships, given annually to sophomores in the School of Music. College citizenship and musical performance are criteria.

William Pyle Philips Scholarship. Awarded annually to at least twenty juniors and seniors who are natives of Chester County. The scholarships recognize high scholastic ability and citizenship, and cover the students' yearly basic fees. If recipients are music or health and physical education majors, the special curriculum fee is also covered.

Theodore Presser Foundation Scholarship. Two scholarships of $200 each, made available by the Presser Foundation's Board of Trustees, are awarded each year to juniors or seniors in music education. The School of Music faculty makes the selections.

Hannah Kent Schoff Memorial Scholarship. Two scholarships of $150 yearly or $600 for four years are available from the Pennsylvania Congress of Parents and Teachers for students entering teacher education at any of the thirteen Pennsylvania State Colleges or Indiana University of Pennsylvania. High school seniors become candidates upon recommendation of their guidance counselors. Application forms, available from guidance counselors, must be filed with the student's selected State College (or the University) before March 1.

Schuylkill County Alumni Club Award. An annual award based on need, ability, and promise, given to a West Chester student who resides in Schuylkill County.

David M. Sensenig Memorial Scholarship. $50 savings bonds given annually to two juniors with outstanding ability in mathematics. Dr. Sensenig was chairman of the Department of Mathematics from 1895 to 1908.

Sico Scholarships. $300 scholarships, in limited number, provided by the SICO Company of Pennsylvania to students from specified localities entering West Chester in the field of elementary education. Competitive examinations for the scholarships take place at West Chester each March. Applications from high school seniors must be filed before March 1 through their guidance counselors. The stipulated areas of legal residence are: Chester, Berks, Cumberland, Dauphin, Lancaster, Lebanon, and York Counties; Cecil County, Maryland; and the State of Delaware.

Dr. Charles S. Swope Memorial Scholarship Trust. A scholarship trust established by the Swope family in memory of Dr. Charles S. Swope, who served as President of West Chester State College for a quarter of a century. Three $600 scholarships are awarded each year. The recipients of the scholarships are under no legal obligation to repay any of the money to the Trust. The Trustees Scholarship Committee determines the recipients upon the basis of academic achievement, character, dedication to the teaching profession, and participation in extracurricular activities. Applications may be obtained from the Office of the President or the Dean of Undergraduate Studies.

VALKYRE CLUB SCHOLARSHIP. The Club, composed of women majors in health and physical education, awards an annual $100 scholarship to one of its Junior Class members.

YORK COUNTY ALUMNI AWARD. A yearly award, in memory of Elsie O. Bull, for a York County resident entering or attending West Chester. Need, ability, and achievement are the criteria. The amount varies.

PENNSYLVANIA DEPARTMENT OF PUBLIC INSTRUCTION SCHOLARSHIPS. The Pennsylvania Department of Public Instruction offers a scholarship of $200 per year for four years to the high school senior earning the highest score in competitive examinations given in each county of the Commonwealth. The scholarships may be used at West Chester. High school guidance counselors will furnish instructions about the examinations.

PENNSYLVANIA STATE SCHOLARSHIPS. The Scholarship Program of the Commonwealth of Pennsylvania, created by the 1965 General Assembly, aids qualified Pennsylvania students who need financial assistance in order to attain a higher education. The scholarships are based upon the student's academic potential as shown on the Scholastic Aptitude Test of the College Entrance Examination Board, upon admission to an institution of higher learning, and upon need for financial assistance, as determined by the Pennsylvania Higher Education Assistance Agency. Scholarships are of varying amounts up to $800 per academic year. A Parents' Confidential Statement (see beginning of this section) must be filed in the offices of the Director of Financial Aid by each recipient.

COUNSELING SERVICES FOR SENIORS SEEKING GRADUATE ASSISTANTSHIPS OR FELLOWSHIPS

Seniors planning to pursue graduate study at other colleges or universities may obtain information about scholarships, fellowships, or assistantships from the Director of Guidance and Counseling or the library. Conferences with department chairmen or faculty advisers are recommended.

LOANS

NATIONAL DEFENSE STUDENT LOAN FUND. The purpose of this Government Loan Program, established under the National Defense Education Act of 1958, is "to stimulate and assist in the establishment at institutions of higher education of funds for the making of low-interest loans to students *in need* thereof to pursue their courses of study in such institutions." While making these loans available to needy students in *any* field of study, the Act specifies that "in the selection of students to receive loans . . . special consideration shall be given to (a) students with a superior

academic background who express a desire to teach in elementary or secondary schools, and (b) students whose academic background indicates a superior capacity or preparation in science, mathematics, engineering, or a modern foreign language." Further information may be secured from the Director of Financial Aid.

Pennsylvania Higher Education Loan Plan. This student loan plan was created by the Act of August 7, 1963, P.L. 549. Its purpose is to improve educational opportunities for residents of Pennsylvania who are attending approved institutions of higher learning in the state or elsewhere in the United States. To be eligible, students must be legal residents of Pennsylvania and admitted to or enrolled in an approved institution of higher education in the United States.

Application forms may be obtained from participating banks in the students' communities or from the Pennsylvania Higher Education Assistance Agency, Harrisburg, 17102.

West Chester State College Student Emergency Loan Fund. Students doing satisfactory academic work and needing funds to continue in the College may obtain short-term loans up to $100 from this fund, which consolidates funds once maintained by the former Student Activities Association and the B'nai B'rith Lodge. The loans must be repaid before graduation or prior to registration for the next academic year.

General Student Alumni Loan Fund. The West Chester State College Alumni Association maintains a loan fund from which students in financial need may borrow up to $100. No interest is charged, although legal security is required. Applicants must have a satisfactory academic record. The loans must be used for college expenses and be repaid before graduation or prior to registration for the next academic year.

Viola Marple Scholarship Loan Fund. The will of Miss Viola Marple, a former teacher in the Department of English, provides scholarship loans for the education of two deserving women students whose records of ability, scholarship, and character promise competence for teaching. Recipients of the interest-free and renewable loans are selected by the English faculty and the President. Application forms may be secured from the Chairman of the Department of English.

STUDENT EMPLOYMENT

Many opportunities to work on campus or in the community are available through the Director of Financial Aid. Students seeking this type of assistance are required to submit the Parents' Confidential Statement described at the beginning of this section.

Student Assistants. A limited number of students are employed as helpers in laboratories and offices of the College and in the library. Usually, some special skill or training is required. The positions are primarily available to those who could not otherwise attend college. The earnings must be used exclusively for college expenses.

STUDENT WAITERS. Students are employed on an hourly basis in the dining hall. These positions, too, are primarily available to those who could not otherwise attend college. The earnings must be used exclusively for college expenses.

PART-TIME EMPLOYMENT. Students wanting part-time work or odd jobs should register with the Director of Financial Aid. Although every effort is made to provide employment, students should not anticipate it as a certainty.

STUDENT LIVING

ADMINISTRATIVE CLASSIFICATION OF STUDENTS

ALTHOUGH THE MAJORITY of West Chester's undergraduates live on the campus, many commute to the College. For administrative purposes, the College classifies its students as:

(1) RESIDENT STUDENTS

a. College Residence Hall Students live in residence halls owned and operated by the College and are required to take their meals in the dining hall.

b. Off-Campus Resident Students (College Campus Extension Students) live in college extension houses. Though not owned by the College, the houses are operated and supervised in substantially the same way as the residence halls. Campus extension students are also required to take their meals in the dining hall.

c. Students in Independent Housing

Students who are under 21 may choose their own housing in the community, but only with parental permission and approval from the Dean of Men (for men) or the Dean of Women (for women).

Students who are 21 or older on the first day of their registration are permitted to choose their own housing.

(2) DAY (COMMUTING) STUDENTS

This classification includes students who commute to and from the College from their legal residence.

The Dean of Men and the Dean of Women assign the classification of each student. They also supervise the operation of the residence halls

and the extension houses. All matters pertaining to student living conditions are under their jurisdiction. Campus extension students are under the same regulations as residence hall students.

Married Students. The College has no housing facilities for married students. Prior to registration, they will need to secure their own accommodations. Area realtors and newspapers should be consulted.

DISMISSAL FROM COLLEGE

Students are expected to conform to the rules and regulations of the College. Students found in violation of these rules and regulations may be suspended or dismissed, but only upon the approval of the President. In instances of violations, administrative officers, faculty members, and student committees and councils may make recommendations to the President for suspension or dismissal.

AUTOMOBILE REGULATIONS

Commuting students must have a permit to drive on the campus. The permit is issued by the campus Chief of Security and must be obtained from his station on registration day.

Resident students are not permitted to maintain or operate automobiles at the College in their freshman year. (Freshmen who are married or veterans of the Armed Services are the only exceptions.)

Resident students other than freshmen are permitted to have an automobile on the campus only if they have valid reasons for one. Before bringing their cars to the College, they must apply to the Dean of Men (for men) or the Dean of Women (for women) for official approval. If approval is granted, resident students must then obtain a permit from the campus Chief of Security.

Married students and veterans of the Armed Forces, wherever they may reside, are not required to obtain approval from a dean, but — along with every West Chester student who operates a car on the campus — they must obtain a permit from the campus Chief of Security.

HOUSING

West Chester's seven residence halls provide accommodations for more than 2,000 women and 700 men.

Student rooms have basic furnishings for comfortable living, and the students may make them more homelike with their own accessory additions. Upon enrollment, students will be informed by the Dean of Women or Dean of Men about the services and equipment furnished by the College and those necessities which the student must supply for himself.

Lounge and recreation areas, storage rooms, television, and a variety of other facilities add convenience and a pleasant setting for student life.

Campus extension houses also provide basic furnishings and many homelike facilities and conveniences.

Overnight Guests. If accommodations are available, a resident student may have an overnight guest on Fridays or Saturdays, at a charge of $1.58 per night. Prior approval and registration must be secured from the Dean of Men (for men students) and the Dean of Women (for women students).

DINING ACCOMMODATIONS

Spacious dining accommodations are provided in Lawrence Center, where all resident students take their meals. Three meals are served, cafeteria style, every day of the week. Menus are carefully planned to meet the nutritional needs of active students.

The dining-hall staff is not equipped to meet the special needs of students whose health requires medically regulated diets. These students may obtain permission to take their meals elsewhere by applying to the Dean of Student Affairs at least two weeks in advance of each semester.

COLLEGE BOOKSTORE

In addition to required textbooks, the College Bookstore carries paperback books, stationery, other student supplies, records, gymnasium uniforms, college blazers, and various gifts and souvenir items. The store, located on the ground floor of Recitation Hall, is a student enterprise whose profits benefit the Intracollegiate Governmental Association.

CAMPUS POST OFFICE

The College has an on-campus post office, located on the second floor of Lawrence Center. Commuting students receive their mail here, through combination-lock mailboxes.

LOUNGE FACILITIES

In addition to the social lounges in residence halls, a large and attractively furnished lounge in Lawrence Center serves both commuting and resident students. Here they may entertain guests, gather informally for relaxation, or enjoy music. A snack bar, near the lounge, is another popular gathering place for leisure moments.

COLLEGE HEALTH SERVICE

To meet emergency and first-aid needs, and to perform routine infirmary treatment of minor illnesses and minor surgical conditions, two part-time physicians and four registered nurses are available, at no cost to the students. A four-bed ward is available for short-term observation or treatment at the discretion of the College physicians. Beyond these services, the College does not furnish medical care nor bear the costs of medical or surgical treatment or hospitalization. The community of West Chester has qualified physicians and excellent hospital facilities.

A group medical and accident policy, approved by the College and covering accidents and illness on a twelve-month basis, is available at registration, or from the College Health Service, at a minimal annual premium. Students and parents are urged to consider the splendid protection it offers.

SPEECH AND HEARING CLINIC

Students who need help in meeting minimal speech standards may obtain it at the Speech and Hearing Clinic which West Chester maintains. Along with serving as a speech improvement center for students, the Clinic provides evaluation and therapy in speech and hearing for children from the community of West Chester and the surrounding area.

GUIDANCE AND COUNSELING CENTER

The professional services of the Guidance and Counseling Center are available to students who need help with problems affecting their academic proficiency, or who have difficulties in adjusting to college life. The staff is trained and experienced in the administration of psychological tests, counseling, and personality evaluation. The program offered includes orientation for entering students.

The student who is coping with emotional difficulties, tensions, or problems of a personal nature should seek assistance at the Center. It is on the first floor of Old Main.

PLACEMENT SERVICES

The College maintains an active Placement Service for its students and graduates. The Director of Placement is in general charge, and is assisted by the Undergraduate Office, the Graduate Office, the Offices of the College of Arts and Sciences and of the Schools, and by student teaching supervisors and other members of the faculty.

The purpose of the service is to help graduating seniors and graduates obtain desirable positions related to their interests and education. It renders assistance to school officials who are seeking qualified teachers to fill vacancies in the schools of the Commonwealth. For the benefit of arts and sciences graduates, communication is maintained with government agencies, business, and industry.

Counseling is offered to all students and graduates in career planning, opportunities, and employment trends. A placement library provides information about career opportunities, area schools, job-training programs, Civil Service careers, job requirements, and application forms and procedures. At periodic intervals, group orientations for senior students are conducted. Although most career placement counseling takes place in the senior and graduate years, all undergraduates with inquiries about careers are invited to use the Placement Service library and to seek guidance from the Placement Service staff.

Meetings between applicants and potential employers are arranged, and private facilities on campus are made available for interviews and conferences. Appropriate follow-up research is conducted periodically with graduates and their employers.

SELECTIVE SERVICE INFORMATION

The Dean of Undergraduate Studies is the adviser on Selective Service. Students wishing counsel or information on this subject should apply at his office.

At the beginning of each college year, a student seeking deferment must complete an *SS109* Form which will be submitted to his local Selective Service Board by the Dean of Undergraduate Studies. The forms may be secured from the Director of Scheduling and Academic Records at registration.

THE STUDENT COMMUNITY

STUDENT GOVERNMENT

QUITE UNDERSTANDABLY, students begin their undergraduate years with a sense of excitement. In a swift transformation, they are plunged into two large adventures: the pursuit of study that will shape the course of their lives, and a sudden move into a new kind of community, composed mainly of youth, focused largely toward the future, and bounded by time as well as the margins of the campus.

It is a conviction at West Chester that the two adventures are closely interwoven, that education is both an academic and a social process, going on in every moment of the student's day. The student community is viewed, not as the housing adjunct of the College, but as an intrinsic element of the West Chester experience.

The Administration holds that students should share responsibly in governing this community and should have a voice in the shaping and re-examination of the objectives of the College.

West Chester students have their own democratically constructed governmental organization for maintaining a mature and responsible student citizenry, and for developing the various activities and programs which best serve their interests and needs. Through advisory and committee machinery, the Administration, the faculty, and the student body seek to work democratically together in behalf of the general concerns of the College.

THE INTRACOLLEGIATE GOVERNMENTAL ASSOCIATION

Student government at West Chester is contained in the Intracollegiate Governmental Association, an organization to which all students belong.

Functioning within a constitutional framework, the IGA provides students with a learning experience in the processes of democratic government.

The General Assembly, chosen by election, is the IGA's legislative body; the IGA program is administered through its officers and a student committee system. In fiscal matters, in various policy-making areas, and in disciplinary action, final authority rests with the President of the College and the Board of Trustees.

The General Assembly is composed of representatives from the Freshman, Sophomore, Junior, and Senior Classes, the Women's and Men's Residence Hall Councils, the Women's and Men's Day Student Councils, and representatives-at-large.

The large concern of the IGA is the welfare of the student body. Under the guidance of faculty advisers, the IGA maintains the College Bookstore, publishes West Chester's student newspaper and handbook, operates the college radio station, conducts ticket sales for athletic events, and plans and executes many all-campus special events and programs.

COUNCILS AND CLASS ORGANIZATIONS

Other matters of student government rest with the Freshman, Sophomore, Junior, and Senior Classes, who elect their officers, and with the Women's and Men's Residence Hall Councils and the Women's and Men's Day Student Councils, which are also democratically constructed.

THE EXTRACURRICULAR PROGRAM AT WEST CHESTER

The College views its extracurricular program as an important supplement to the student's academic experience, and looks upon the various available activities as a virtual laboratory in which the undergraduate puts into practice knowledge and skills generated in the classroom. The Administration also believes that the College's extracurricular activities offer the student experiences which will stand him in good stead in his later professional, business, or community life.

The Dean of Student Affairs has overall responsibility for West Chester's extracurricular program; he coordinates it, sees that it meets the needs of students, and fits its various phases into the whole of college

living. He works closely with the officers and committees of IGA and the four Classes and — through the Director of Social Activities — with the leadership of the many clubs and organizations which flourish on the campus.

Together, the Dean and the Director encourage — indeed, advise — students to take part in extracurricular affairs. Some, but by no means all, of the available activities are described in this section. The new student becomes fully acquainted with others through his student handbook. In summary, these include:

PROFESSIONAL ORGANIZATIONS. The various schools, divisions, and departments of the College sponsor clubs and activities devoted to professional development. Among these are such groups as the Association of Childhood Education, English, French, Geography, Mathematics, Music, Philosophy, Social Sciences, and Science clubs, and activities for health and physical education students.

CLUBS CENTERED AROUND INTERESTS. Photography, nature study, bowling, bridge, horseback riding, art, records, and other special interests draw students together in various clubs or groups.

ACTIVITIES CENTERED AROUND GROUP LIFE. These include the many committees and special projects arising within the student-government bodies and may range from membership on a committee planning a social or public-affairs event to working on the College yearbook or newspaper.

Organizations which meet the religious needs of students are listed below, under *Religious Organizations*. West Chester students are always made welcome at the many places of worship in and near the Borough of West Chester.

SPECIAL EVENTS

A notably vigorous interest in the arts and thought of the times exists at West Chester and throughout the larger community (the Borough of West Chester and the surrounding sector of Chester County) in which the College is located.

In some part, this unusual devotion to letters and the performing arts has roots in the past of Chester County, whose unusual numbers of scholars, scientists, writers, and artists throughout the nineteenth century led the West Chester area to be known for several golden decades as the "Athens of Pennsylvania."

With Philadelphia's rich cultural resources in easy reach and with stimulus from the singular number of other colleges in the Philadelphia orbit, attention to the arts is keen in southeastern Pennsylvania, to the benefit of West Chester students.

Throughout the academic year, students have many opportunities to deepen their interest in music by attending concerts and recitals provided by the faculty and students of the School of Music. At several annual series of programs, students and townspeople fill the large auditorium of Philips Memorial Hall.

Notably, the All-Star Course brings to the campus some of the world's distinguished artists in the fields of music, drama, and dance. Among these have been the Detroit, Washington National, Cincinnati, and Minneapolis Symphony Orchestras, the Robert Shaw and Roger Wagner Chorales, Isaac Stern, George London, Jerome Hines, Nicolai Gedda, Phyllis Curtin, Evelyn Lear, the National Ballet, the American Ballet Theatre, Jose Greco and Company, and the Goldovsky Grand Opera Theater.

The Chamber Music Series brings to the College outstanding small ensembles. In recent years programs have featured the Philadelphia Brass Ensemble, Curtis String Quartet, and de Pasquale String Quartet.

Through the William Pyle Philips Lecture Foundation, students have opportunities to attend lecture programs bringing leaders in literature, science, and world affairs to the campus. Among these have been Madame V. L. Pandit, Arnold Toynbee, Winston Churchill II, Harrison Salisbury, Carl Rowan, Mark Van Doren, Sir Julian Huxley, Robert Frost, Dame Judith Anderson, Edward Weeks, and General Carlos P. Romulo.

Thanks to the Intracollegiate Governmental Association, another series of evening programs, generally eight in number, brings outstanding professional talent to West Chester.

Under the aegis of the Campus Cinema Club, a monthly motion-picture series shows foreign films and classics from film libraries.

Other programs, sponsored from time to time by various clubs or organizations, bring to the campus speakers of regional or national importance in such areas as public affairs, the sciences, literature and the arts. and popular entertainers.

MUSICAL ORGANIZATIONS

In conjunction with the regularly scheduled student and faculty recitals, the College Administration maintains the following well-developed musical organizations which contribute to the wealth of fine music on the campus:

1. TWO COLLEGE BANDS: THE CONCERT AND MARCHING BAND AND THE SECOND CONCERT BAND. Membership in these organizations is determined by the student's qualifications regardless of curriculum.

2. SYMPHONY ORCHESTRA. Membership in this organization is determined by the student's qualifications regardless of curriculum.

3. SINFONIETTA (LITTLE SYMPHONY ORCHESTRA). The Sinfonietta is a group of approximately 25 selected players from the Symphony Orchestra. It specializes in music written for small orchestras.

4. INSTRUMENTAL ENSEMBLES AND CHAMBER MUSIC GROUPS. Membership in these groups is determined by the student's qualifications.

5. THE CRITERIONS. The College jazz lab band, whose members are selected by audition.

6. CONCERT CHOIR. A mixed choir of music students selected by audition. This choir of about forty voices meets twice a week, devoting its efforts toward acquiring a fine technique of choral singing through the preparation of an extensive repertoire for performance.

7. CHOIR. A mixed choir of junior and senior music students. This group meets twice a week, devoting its efforts toward a wide association with choral literature. It is used as an opera chorus in School of Music productions and joins with the Concert Choir for large combined performances.

8. WOMEN'S CHORUS. All freshman and sophomore women not in the Concert Choir who are enrolled in the Music Education curriculum are required to take this course, devoting their efforts primarily toward acquiring the techniques of choral singing.

9. MEN'S CHORUS. All freshman and sophomore men in music education who are not enrolled in the Concert Choir are required to take this course. Men from all other curricula are invited to audition for this group.

10. MIXED CHORUS. A mixed chorus of freshman and sophomore music education students. This group meets once a week, alternating as a mixed chorus and as Men's Chorus and Women's Chorus. It combines with the Concert Choir for performances.

11. WOMEN'S GLEE CLUB. This organization provides an opportunity for non-music women students to participate in a choral group. The activities include the annual Christmas Carol Program and the Women's Glee Club spring concert. Membership is by individual audition.

WEST CHESTER'S ATHLETIC PROGRAM

All West Chester students have opportunities to participate in the broad athletic program maintained by the College. Both the intramural and intercollegiate phases of the athletic program are described in detail under School of Health and Physical Education.

OTHER EXTRACURRICULAR ORGANIZATIONS AND ACTIVITIES

LITTLE THEATRE

This student organization, functioning in Theatre 208, provides a workshop for those who wish training in educational, technical, and performing theatre. It presents a variety of major plays for the College as well as the West Chester community. Little Theatre established the West Chester chapter of Alphi Psi Omega, national honorary dramatic fraternity.

PUBLICATIONS

QUAD ANGLES. This student newspaper is published by an undergraduate staff, with a faculty member serving as adviser. Positions on *Quad Angles* are open to any member of the student body with reportorial or editorial ability. Students who join the staff gain training and experience in journalism.

THE SERPENTINE. Publication of this college yearbook is a responsibility of the Senior Class. The yearbook, which records college activities, is edited by a student staff with two advisers.

THE RAM'S HORN. The Varsity Club produces this publication, issued on the occasion of each home game of the football season. Aided by a faculty adviser, the staff is composed of undergraduate students.

THE HANDBOOK. This annual publication provides incoming freshmen with pertinent information concerning student life at West Chester. A student staff, advised by a faculty sponsor, prepares *The Handbook*.

STATION WCSC

The radio station, WCSC, is maintained by the Intracollegiate Governmental Association as a service to the College. The station is on the air in the afternoons and evenings and brings national and local news as well as music to the campus. Students who take part in the project gain a working experience in programming and announcing.

RELIGIOUS ORGANIZATIONS

Opportunities for fellowship and religious experience are offered at West Chester by the following groups:

Inter-Varsity Christian Fellowship
Hillel Foundation
Newman Club
Student Christian Association
Christian Science Association
Baha'i Club
Lutheran Students Association

SERVICE ORGANIZATIONS

THE FRIARS SOCIETY. Composed of sophomore, junior, and senior men, invited into the organization in recognition of character and leadership. The Society's various service projects concern the good of the College community.

ALPHA SIGMA PHI (The Alphite Society). A group of College women dedicated to service and upholding the scholastic standards of the College. Membership is by invitation.

WEST CHESTER STATE COLLEGE JUNIOR CHAMBER OF COMMERCE. An organization which serves as a training ground for community service and leadership. Membership is open to all interested men who have completed the freshman year.

ALPHA PHI OMEGA. A national men's service organization concerned with developing leadership and furthering the American heritage of freedom. Membership in Omicron Upsilon chapter is open to all West Chester men who have completed their first semester and have a background in scouting.

HONOR SOCIETIES

ALPHA PSI OMEGA. Rho Mu, the West Chester chapter of this coeducational dramatic fraternity, was established in 1961. It is responsible for one major production presented each year in cooperation with the Little Theatre.

GAMMA THETA UPSILON. Gamma Eta chapter of this professional geography fraternity was established at West Chester in 1963. The organization promotes professional interest in geography.

KAPPA DELTA PI. The School of Education sponsors this fraternity to encourage high professional standards in education. Membership is awarded by invitation to education majors with high academic standing.

MATHEMATICS HONOR SOCIETY. Organized in 1962, this society is open to students who have completed eighteen semester credits in mathematics with a minimum average of 3.0.

PI GAMMA MU. The Division of Social Sciences sponsors Omega chapter of Pi Gamma Mu for the purpose of improving scholarship in the social sciences and to inspire social service to mankind. Majors in the Division of Social Sciences with high academic accomplishments are invited into membership in their junior and senior years.

SIGMA ALPHA IOTA. Epsilon Epsilon chapter of this internationally incorporated professional fraternity for women in music was formed at West Chester in 1968. The fraternity is dedicated to service in the field of music. Membership, by invitation, recognizes scholarship. Members must be in at least their second semester.

PHI ALPHA THETA. Organized in 1968, Nu Sigma chapter of this international honor society in history is sponsored by the Department of History. Phi Alpha Theta is open to history majors in teacher education and liberal arts who have a minimum average of 3.10 in twelve or more semester credits in history.

PHI EPSILON KAPPA. The School of Health and Physical Education sponsors a chapter of this national professional fraternity for men majoring in health and physical education. Phi Epsilon Kappa seeks to advance the profession of health and physical education throughout the nation.

PHI MU ALPHA (Sinfonia Fraternity). Rho Sigma chapter of this professional fraternity for men majoring in music was formed at West Chester in 1967. The organization seeks to advance the cause of music in America and to further the welfare and brotherhood of students in music. Membership is by invitation. Members must be in at least their second semester.

PSI CHI. A chapter of this national honor society in psychology is sponsored by the Department of Psychology. Membership is by invitation, with scholarship and citizenship as criteria. Psi Chi, which is under the aegis of the American Psychological Association, endeavors to advance the service of psychology and encourages superior scholarship in psychology.

SOCIAL FRATERNITIES AND SORORITIES

The College has a system of social fraternities and sororities, governed respectively by the Intra-Fraternity Council and the Sorority Council. The system, which came into being during 1967-1968, has rapidly taken

its place as an integral part of campus life at West Chester. Chapters of the following national fraternities have been established:

Theta Chi	Sigma Tau Gamma
Lambda Chi Alpha	Tau Kappa Epsilon
Pi Lambda Phi	Phi Epsilon Pi

Several social sororities were in their formulating stages and becoming part of the College community in the 1968-1969 College year.

SOCIAL EVENTS

A number of traditional social events highlight the student calendar throughout the year. Students look forward to the excitement and color of Rampage Weekend (homecoming), and to such pleasant affairs as the Christmas White Supper and Dance, the Easter "Bunny Hop," Spring Weekend, Senior Weekend, and the various class formals.

ACADEMIC INFORMATION

THE ACADEMIC PROGRAM AT WEST CHESTER is developed under a committee process which reaches deeply through the faculty. Curricula, policies, and regulations are determined by the Academic Affairs Council with the approval of the Administration and, where necessary, the Board of Trustees. Stemming from the Council and serving it with recommendations in specific areas are subsidiary bodies, among them the Academic Standards Committee, the Graduate Council, and the Teacher Education Council.

Under West Chester's advisory program, every student has a faculty adviser who counsels him on academic matters throughout his undergraduate years. The student-adviser assignments are established early in the student's freshman year. Advisers maintain close relations with the staff of the Guidance and Counseling Center.

ACADEMIC CLASSIFICATION OF STUDENTS

The student's class designation is determined by the number of semester hours of credit earned, thus:

Freshman	31 semester hours of credit or less
Sophomore	32–63 s.h. of credit (inclusive)
Junior	64–95 s.h. of credit (inclusive)
Senior	96 or more s.h. of credit

CLASSIFICATION BY COLLEGE PROGRAM

Students are also classified by program, as follows:

Regular Student — all undergraduates admitted to a regular degree program.

Special Student — students pursuing one of the following types of programs which will comprise twelve or more semester hours of credit upon completion:

a. Cooperative degree program for public school nurses;

b. Cooperative degree program for dental hygienists;

c. Certification program for college graduates seeking teaching certificates.

Unclassified — all other students in a non-degree program.

GRADING SYSTEM

The College employs the following grading system:

Grade	*Interpretation*	*Percentage Equivalents*	*Quality Points*
A	Excellent	A = 90 - 100	4
B	Superior	B = 80 - 89	3
C	Average	C = 70 - 79	2
D	Below Average	D = 60 - 69	1
E	Failure with Re-examination Privilege		
F	Failure	F = 59 or lower	0
I	Incomplete		
WF	Withdrew Failing	F = 59 or lower	0
WP	Withdrew Passing		
W	Withdrew		
Aud	Audit		

Explanation of I and E Marks: A rating of I (Incomplete) is given when there are valid reasons (such as serious illness or death in the family) for a student's failure to complete course requirements by the end of a semester. Unless the work is satisisfactorily completed within the first nine weeks of the next semester, the I becomes an F.

An instructor may give an E (Failure with Re-examination Privilege) when he considers the margin of failure so narrow as to warrant a second try. If the student does not take the re-examination within the first nine weeks of the next semester (or fails again) the E becomes an F. The grade may never be higher than D.

SCHOLASTIC INDEX

The scholastic index (academic average) is determined by dividing the total quality points by the total credit hours. The following example will illustrate:

	Semester Hours	*Grade*	*Quality Points for Grade*		*Quality Points for Course*
1st subject	3	A	4	4 x 3 =	12
2nd subject	3	B	3	3 x 3 =	9
3rd subject	2	C	2	2 x 2 =	4
4th subject	3	D	1	1 x 3 =	3
5th subject	2	F	0	0 x 2 =	0
	13				28

28 ÷ 13 = Scholastic Index 2.15

All grades received during a student's enrollment are included in the overall scholastic index. Grades from other colleges are excluded.

AUDITING PRIVILEGES

Those wishing to audit a course may do so by obtaining permission from the Dean of Undergraduate Studies. Regular semester-hour fees are charged. Auditors have the privileges of attending the class and participating in class discussion. At the instructor's discretion, auditors may be permitted to take the examinations; however, no letter grades will be recorded. No more than one course per semester may be audited.

MAINTENANCE OF MINIMUM STANDARDS

All students should strive to maintain the best possible scholastic index. A 2.00 (C) index is the minimum standard which can be considered acceptable academic work. Students failing to maintain a 2.00 index are automatically considered probationary students.

More specifically, students must attain the following scholastic indices in order to remain in the College:

a. Students with 0 to 32 credits must attain 1.60
b. Students with 33 to 63 credits must attain 1.60
c. Students with 64 to 95 credits must attain 1.80
d. Students with 96 or more credits must attain 2.00

A minimum scholastic index of 2.00 (C)for all work taken at the College is required for Senior Standing and graduation.

Transfer students are required to maintain the scholastic indices indicated above. The number of credits taken at West Chester is added to the number of credits transferred in, for the purpose of determining the credit hours attempted. For example, 34 credits transferred in and 32 credits at the College equal 66 credits and require a minimum index of 1.80.

ACADEMIC DISMISSAL

If a student does not attain the required scholastic index by the end of the spring semester, he may attend summer sessions at West Chester in order to improve his academic average. If he does not attain the required scholastic index by the end of the Regular Summer Session, he is dismissed from the College.

After his first academic dismissal from West Chester, he may apply for readmission as described below. A second academic dismissal automatically terminates his degree candidacy at West Chester. All courses taken as a non-degree student, following termination of degree candidacy for the second dismissal, shall not be included in his grade-point average nor imply the right to readmission to the College.

NOTICES OF ACADEMIC PROBATION AND ACADEMIC DISMISSAL

The Chairman of the Academic Standards Committee will send notices concerning academic probation and academic dismissal to the following: parents, Deans of Schools, Directors of Division, the Dean of Men (or) Dean of Women, the Office of Business Affairs, the Intracollegiate Governmental Association, the Dean of Student Affairs, the Director of Scheduling and Academic Records, and the Computer Center.

REPEATING COURSES

A student must repeat any *required* courses in which he earned grades of F at West Chester. He *may* repeat any course for which an F or D grade is received. The repeat grade will stand as the final grade for graduation, but the original grade will not be erased from the student's permanent record and will be computed into the scholastic index. Repeated courses for which D and F grades were received must be taken at West Chester.

READMISSION

Readmission to West Chester as a degree candidate is not possible if the student has been permanently dismissed because of academic failure. (See *Academic Dismissal,* above.)

If a student fails to meet requirements for reinstatement following attendance at the West Chester summer sessions, the following course of action applies:

(1) The student must achieve the required grade-point average for readmission. (See *Maintenance of Minimum Standards,* above.) The student is not eligible for readmission as a degree candidate until he has remained away from West Chester State College as a full-time student for a period of at least one academic semester following academic dismissal.

(2) In an effort to secure the required academic grade-point average, he may register for courses in evening classes or summer sessions at West Chester as a part-time non-degree student. (Courses taken at other colleges or universities, even though approved by the Office of the Dean of Undergraduate Studies, will *not* be considered in computing the scholastic index.)

(3) Candidates for readmission must file an application with the Director of Admissions by August 1 or December 15.

(4) Readmission status is granted only after approval by the Academic Standards Committee, the major department or school, and the Dean of Men or Women.

ROOM RESERVATION POLICY FOR REINSTATED STUDENTS

Room reservations are not held for resident students who are in academic difficulty at the close of the spring semester. If students attend summer sessions and are reinstated for the following fall semester, they must re-apply for housing.

UPPER DIVISION STANDING

Students shall apply to their department of specialization for Upper Division Standing upon completion of 64 credit hours with a general scholastic index of 1.80. Upper Division Standing is awarded upon the achievement of a 2.00 in the area of specialization and the meeting of other departmental requirements. Upon the recommendation of his department, a student may be granted a probationary period of one semester, to enable him to achieve Upper Division Standing. Beyond 80 hours of earned credit, there can be no further probation.

REPORTS TO PARENTS

As soon as possible after each semester, the Director of Scheduling and Academic Records mails a report of each student's semester grades to his parents or guardian.

HONORS WORK

The Honors Program, which is limited to five per cent of the students in any area of concentration, is designed to stimulate the superior student to develop his powers of research and original thinking. The program may be pursued by students in both the arts and sciences and in teacher education.

The honors student is challenged toward deepened comprehension in his field and toward intellectual achievement beyond that demanded by the College's standard graduation requirements. He is expected to make full use of West Chester's resources in the classroom, laboratory, research centers, and library, and, beyond these, to seek new perspectives in his field and the areas it encompasses.

Although students may request consideration, enrollment is by invitation from the pertinent faculty, with approval from the dean of the area which provides the area of concentration. A scholastic index of 3.00 or better in both general work and the specialization is required. The student must have completed four semesters at West Chester.

To earn a degree with honors, the student must satisfactorily complete no less than twelve (and no more than 24) semester hours in honors work in his specialization and related areas. A grade of B or better is required for any honors credit given. Honors work usually falls into two categories: *in-course* and *out-course* work. Research may result in either a thesis-type term paper or a research report dealing with the solution of a statistical or mathematical problem.

Among the fields concerned are: English, theatre arts, foreign languages, philosophy, mathematics, and the social sciences.

ACADEMIC HONORS LISTS

The Dean's Lists are published at the close of each semester.

High Honors List — scholastic index of 3.50-4.00
Honors List — scholastic index of 3.00-3.49

Students with appropriate scholastic indices at the end of their sixth semester (96 semester hours) may be graduated with one of four distinctions:

summa cum laude — scholastic index of 3.75-4.00
magna cum laude — scholastic index of 3.50-3.74
cum laude — scholastic index of 3.25-3.49
honors — scholastic index of 3.24

STUDENT CLASS LOAD

A full-time student's schedule must have a normal load. This may range from twelve to seventeen semester hours of credit. No student is permitted to schedule more than 34 semester hours of credit in one academic year without the approval of the Dean of Undergraduate Studies.

STUDENT LOAD FOR VETERANS

The Veterans Administration requires a student to schedule at least fourteen semester hours per semester in order to receive full benefits under the G. I. Bill. (All veterans' affairs are dealt with in the offices of the Director of Scheduling and Academic Records.)

CLASS ATTENDANCE

Regular and punctual attendance at classes is considered essential to sound scholarship and good campus citizenship. A student handbook, given the student upon registration, states the absence policy.

REMEDIAL INSTRUCTION

New students with low records on the College Board's English Composition Achievement Test may be required to carry a less than normal class load and to attend, without credit, remedial classes in English and/or reading.

New students in teacher education, with low records on tests administered by the Department of Speech and Theatre, may be required to carry a less than normal class load and to attend, without credit, a class in remedial speech.

WITHDRAWAL FROM A COURSE

A student has the privilege of withdrawing from a course within the first four weeks of a semester. He must first consult with the Dean of

Undergraduate Studies, who will record a W (Withdrawn) having no effect on the student's permanent grade record.

After the first four weeks of a semester, a withdrawal will not be approved except for special reasons and emergencies. Both the Dean of Undergraduate Studies and the instructor must give approval. The student initiates his request for an approved withdrawal by applying to the Dean of Undergraduate Studies.

If the student is doing passing work at the time of approved withdrawal, a WP (Withdrawn Passing) will merely be noted on his permanent record; it will not be treated as a grade. On the other hand, if a WF (Withdrawn Failing) is given, the student receives an F on his permanent record. A student who drops a course without official permission is given an F.

WITHDRAWAL FROM THE COLLEGE

The student intending to withdraw from the College must give the Dean of Undergraduate Studies written notice, indicating why and when he plans to do so. The student who fails to comply with this requirement will be declared not a member of the College, after ten days of an unexplained absence. His last day in classes will be considered the date which terminates his connection with the College.

When, owing to illness or other reasons, a student discontinues his work at the College, he must notify the Dean of Undergraduate Studies. at once. Unless a student withdraws officially, F grades for unfinished courses are recorded.

CREDIT BY EXAMINATION

A student in good standing may ask to take a comprehensive examination in a particular course offered by the College. The request must be filed during the first two weeks of a semester, on a form obtained from the Dean of Undergraduate Studies. Demonstration of mastery in the field is required. If credit by examination would produce an overload, the applicant must have Dean's List standing. Once the request is approved, the student registers for the course in the usual way and, if he desires, may audit the class. The semester hours of credit earned by examination apply toward graduation requirements.

ADVANCED PLACEMENT PROGRAM

Courses taken under the Advanced Placement Program offered by the College Entrance Examination Board, Princeton, New Jersey, may be applied toward advanced placement in the College and/or toward credit requirements for graduation. Application for credit must be made by July 1 to the Dean of Undergraduate Studies. The College recognizes grades of 5 and 4 as acceptable, but not grades 3, 2, or 1.

If an application is approved, the student registers for the course and pays the fee. There is no fee for an application for advanced standing without credit. Not more than fifteen credits earned under the Advanced Placement Program may be applied toward graduation requirements. Information concerning the Advanced Placement Program may be obtained from the New York City offices of the College Entrance Examination Board, 475 Riverside Drive, New York, New York 10027, or from high school guidance counselors.

RESIDENT CREDIT REQUIREMENT

To qualify for graduation from a degree curriculum, a student must take his last thirty semester hours of credit at West Chester. Resident credits may be earned in day, evening, and Saturday classes.

STUDENT TEACHING

Student teaching is to be taken in the seventh or eighth semester and normally culminates the professional experience in pre-service preparation for teaching. Students are required to file applications for student teaching one year prior to their student-teaching semester. Regular meetings for student-teaching registration are scheduled annually for the first week in February. Prospective student teachers must attend one of these meetings.

Students must do their student teaching in stations in school areas where the College holds a contract for student teachers.

To be eligible for student teaching, candidates must have Senior Standing (96 semester hours), a scholastic index of 2.00 (C) or higher, and must have completed all course work required in the first six semesters. Applications for admission to student teaching are reviewed by the department in which the applicant wishes to secure certification, by the Dean of Undergraduate Studies, and by the Director of Student Teaching.

INTERN TEACHING PROGRAM

An intern program is available for persons with a college degree who seek teacher certification. Candidates—including those pursuing a graduate program toward a higher degree—must apply to the Office of Undergraduate Studies. To be accepted as an intern, a candidate must be enrolled in a certification program at West Chester. The intern teaching is completed as twelve credits of undergraduate work. Intern candidates must secure their own positions in an elementary or secondary school in which West Chester State College provides supervision. All required professional education courses must be completed before intern teaching is undertaken.

REQUIREMENTS FOR GRADUATION

A student is recommended for graduation upon the satisfactory completion of a minimum of 128 semester hours and upon the fulfillment of all categories of the requirements for his degree. A minimum scholastic index of 2.00 (C) is required for graduation. Degree requirements are fully set forth in this catalogue, under the heading of the subject field, in the section entitled Programs of Study and Degree Requirements. The final thirty semester hours of credit must be attained at West Chester (see *Resident Credit Requirement,* above).

NOTICE OF ANTICIPATION OF GRADUATION

It is the student's responsibility to report to the Office of the Dean of Undergraduate Studies at least three months before the date of anticipated graduation. The student must see that his name, written as he wishes, is placed upon the list of prospective graduates. Otherwise, recognition of his graduation must be postponed until the next regular Commencement. Diplomas will not be issued until all bills and obligations to the College are met.

TRANSCRIPTS

Applications for official transcripts should be made in writing to the Director of Scheduling and Academic Records. There is no charge for the first transcript, supplied at graduation, nor for transcripts sent to

Pennsylvania school officials with applications for a position. A charge of one dollar is made for all other transcripts. Checks, payable to the "Commonwealth of Pennsylvania," must accompany requests.

Transcripts are considered official only when sent directly to the authority who is to evaluate or record them. Consequently, transcripts sent to students are not official and do not bear the College seal. Most states and most school and college authorities accept only official transcripts. When requesting official transcripts, students need to give the names and addresses of the officials who are to receive them.

ARMED SERVICES ROC PROGRAM

The College, with the approval of the Board of Trustees, has a policy under which West Chester students enrolled in the Armed Services ROC (Reserve Officer Candidate) Program may receive six semester hours of baccalaureate credit upon the successful completion and certification of ROC military requirements. Such credits are classified as free elective transfer credits. Depending on the status of each student's program at the time of transferring ROC credits, such credits will be counted toward, or in excess of, the 128 credits required for a baccalaureate degree.

ROC programs are contingent on the successful completion of military requirements during summer vacation and the earning of a college degree before being granted the service commission. The programs cover the Navy's Basic and Advanced Reserve Officer Candidate courses and the Marine Corps' Junior and Senior Platoon Leadership courses.

PROVISIONAL COLLEGE CERTIFICATE

A student who satisfactorily completes one of the teacher education curricula offered by the College receives his degree from the College and qualifies for a Provisional College Certificate which is issued to him by the Department of Public Instruction, Harrisburg.

In the elementary field this certificate qualifies the holder to teach in the elementary schools of Pennsylvania for three years.

In the secondary field this certificate qualifies the holder to each the subject written thereupon in the secondary schools of Pennsylvania for three years.

In health and physical education, music education, foreign languages, and the concentration in speech pathology and audiology, the certificate qualifies the holder to teach the specified subject in the public schools of Pennsylvania for three years.

PERMANENT COLLEGE CERTIFICATE

The Permanent College Certificate requires three years of successful teaching in the public schools of Pennsylvania under the Provisional College Certificate and the satisfactory completion of 24 semester hours of additional work of collegiate grade, completed subsequent to the issuance of the baccalaureate degree. One-half of the additional work must be professional in character and the remainder related to the subject field on the certificate. This certificate is a permanent license to teach in Pennsylvania. When prepared for the Permanent Certificate, teachers may obtain the necessary application instructions from superintendents of schools or county superintendents of schools.

EXTENSION OF COLLEGE CERTIFICATES

(1) A college certificate valid for the secondary field may be extended to include the elementary field by completing 24 semester hours of approved courses in the field of elementary education, distributed as follows: a course in the teaching of reading, the remainder selected from a minimum of four of the following areas: mathematics, arts and crafts, music, health and physical education, language arts, sciences, social studies, geography, mental hygiene, or a course dealing with exceptional children.

(2) A college certificate valid for the elementary field may be extended to include any subject of the secondary field by completing the College's field requirement for it (see *Specialization for Secondary Teaching* in School of Education) and the related methods course.

(3) A college certificate valid for the secondary field may be extended to include additional academic subjects by completing the College's field requirements for them. (See *Specialization for Secondary Teaching* in School of Education.)

COLLEGE COURSES FOR TEACHERS

Each semester a number of late-afternoon, evening, and Saturday-morning courses are offered for teachers-in-service who wish to satisfy various professional needs, including certification requirements. The courses given are selected from the several curricula and are chosen with the idea of accommodating as many teachers as possible.

Unless special permission is given by the Dean of Undergraduate Studies, not more than six semester hours of credit will be allowed for courses completed in any one semester by a student who is a regularly employed full-time teacher.

The basic fee is the same as for other part-time students (see Expenses).

The College gladly welcomes suggestions for courses to be offered evenings or Saturdays. Any such suggestions may be directed to the Dean of Undergraduate Studies.

CERTIFICATION IN OTHER STATES

Concerning requirements for certification for teaching in other states, students may consult the Dean of Undergraduate Studies.

TEACHERS IN SERVICE

Entrance and college credits based on teaching experience have not been granted since September 1, 1927. Credit for student teaching other than that done under the direction of the College will not be allowed.

PROGRAMS OF STUDY

DEGREE REQUIREMENTS

West Chester State College offers programs leading to the Bachelor of Arts, the Bachelor of Science in Education and in Business Administration, and the Bachelor of Music degrees. Academic concentrations in teacher education may be undertaken in elementary education, in secondary education with specialization in any of a number of disciplines, in health and physical education, music education, and in speech pathology and audiology.

The Bachelor of Arts degree may be earned by undertaking concentrations in subject fields within arts and letters, the social sciences, the sciences, mathematics, and music. It is also possible for the student to develop a pre-professional program within the structure of the appropriate area of concentration; several of these programs are interdisciplinary in nature.

Certain basic studies (General Requirements) are common to all curricula. Although minor variations exist, these studies are normally composed of courses in arts and letters, social sciences, and sciences–mathematics. A student must consult with his academic adviser to determine his specific curriculum requirements. The basic design for the General Requirements of the College is shown on Page 63.

All curricula offered at West Chester are delineated on Page 62. Detailed information about programs and degree requirements follows, under the headings of the College of Arts and Sciences, the School of Education, the School of Health and Physical Education, and the School of Music.

All courses, and the sequences in which they are given, are subject to change for administrative reasons.

CURRICULA OFFERED AT WEST CHESTER

TEACHER EDUCATION

ELEMENTARY EDUCATION

SECONDARY EDUCATION

Comprehensive English

Foreign Languages
- French
- German
- Latin
- Russian
- Spanish

Geography

Mathematics

Sciences
- Biology
- Chemistry
- Comprehensive Science
- Earth and Space Science
- Physics

Social Sciences
- Comprehensive Social Studies
- History

Speech and Theatre

HEALTH AND PHYSICAL EDUCATION

Degree Program

Certification Program:
- Education for Safe Living

MUSIC EDUCATION

COOPERATIVE DEGREE PROGRAMS FOR:

Dental Hygienists

Public School Nurses

SPECIAL EDUCATION PROGRAMS

Degree Program:
- Speech Pathology and Audiology

Certification Programs:
- Teaching the Mentally Retarded
- Teaching the Physically Handicapped

ARTS AND SCIENCES

ARTS AND LETTERS

Art

Foreign Languages
- French
- German
- Latin
- Russian
- Spanish

Literature

Philosophy

Speech Arts

Theatre Arts

SOCIAL SCIENCES

Economics

Geography

History

Political Science

Psychology

Sociology–Anthropology

Social Service and Personnel Work

BUSINESS ADMINISTRATION

SCIENCES

Biology

Chemistry

Physics

MATHEMATICS

PROGRAMS IN MUSIC

B.A. Degree

B.Mus. Degree

INTERDISCIPLINARY PROGRAMS

American Studies

Latin-American Studies

Russian Studies

GENERAL REQUIREMENTS FOR ALL CURRICULA

1 SKILLS AND COMPETENCIES — 12 or 18 semester hours

a.	English Composition	6
b.	Speech	2
c.	Foreign Language	6
	Required through intermediate level for all B.A. degrees (must be French, German, or Russian in sciences and mathematics) and for B.S. in Education in field of English. Not required for B.S. in Education in other fields. Also required for B.Mus. but need not be at intermediate level.	
d.	Physical Education	2
e.	Health	2

2 ARTS AND LETTERS — 15 semester hours

a.	Literature (1 Required, 1 Elective)	6
b.	Art	3
c.	Music	3
d.	Philosophy	3

3 SOCIAL SCIENCES — 15 semester hours

a.	History (1 Required, 1 Elective)	6
b.	Geography	3
c.	Psychology or Sociology	3
d.	Political Science or Economics	3

4 SCIENCES — 11 semester hours

a.	Science (with Lab)	8
b.	Mathematics	3

5 FREE ELECTIVES — 3 semester hours

TOTAL 56 or 62

Note: The courses required should be mutually agreeable to the curricular areas concerned. Freedom of choice for the student, with his adviser's approval, to elect substitutes to meet area requirements is recommended. *Note also*: Majors in health and physical education, elementary education, music education, and students pursuing the B.Mus. degree will find the minor variations in their General Requirements outlined under the heading of their Schools. General Requirements for the B.S. in Business Administration are shown in the Department of Economics and Business.

College of Arts and Sciences

Kenneth C. Slagle, *Dean*

Thomas J. Corr, *Assistant to the Dean*

The College of Arts and Sciences provides the administrative framework for West Chester's expanding program in the arts and sciences. The College of Arts and Sciences is composed of three Divisions, each embracing the following departments:

DIVISION OF ARTS AND LETTERS

Department of Art
Department of English
Department of Foreign Languages
Department of Philosophy
Department of Speech and Theatre

DIVISION OF SCIENCES AND MATHEMATICS

Department of Biology
Department of Chemistry
Department of Mathematics
Department of Physics

DIVISION OF SOCIAL SCIENCES

Department of Economics and Business
Department of Geography
Department of History
Department of Political Science
Department of Psychology
Department of Sociology and Anthropology

The College of Arts and Sciences offers programs leading to the Bachelor of Arts and the Bachelor of Science in Business Administration. It also provides most of the courses which meet the General Requirements component common to every curriculum. Majors in secondary education obtain the specialized preparation necessary for their field in the College of Arts and Sciences, and it is here, also, that elementary education majors receive most of their courses in Areas of Interest.

The College of Arts and Sciences works jointly with the School of Education in developing degree requirements in secondary education. The responsibility for final certification of all students seeking the Bachelor of Science in Education rests with the Dean of Undergraduate Studies and, finally, with the Dean of the School of Education.

There is also close cooperation and interchange between the College of Arts and Sciences and the other Schools of the College in the development of their respective curricula. For example, the programs of the Division of Arts and Letters are broadened by appropriate courses given in the School of Music.

The degree requirements for the various programs leading to the Bachelor of Arts, the Bachelor of Science in Business Administration, the Bachelor of Science in Education (secondary), and the B.S. in Education for speech pathology and audiology are outlined on the following pages under the heading of departments, alphabetically arranged within their divisions. The professional-education requirements for secondary education majors are found under School of Education. Speech pathology and audiology majors will find their professional-education requirements outlined under Department of Speech and Theatre.

INTERDISCIPLINARY PROGRAMS

Three interdisciplinary programs — American Studies, Latin-American Studies, and Russian Studies — which lead to the Bachelor of Arts degree are shown following the Division of Social Sciences. These programs draw on the resources of the Schools of Music and of Education as well as of the College of Arts and Sciences.

DIVISION OF ARTS AND LETTERS

John W. Clokey, *Director*

BACHELOR OF ARTS

Concentrations in

Art
Foreign Languages
Literature
Philosophy
Speech Arts
Theatre Arts

BACHELOR OF SCIENCE IN EDUCATION

Concentrations in

Comprehensive English
Foreign Languages
Speech and Theatre
Speech Pathology and Audiology

DEPARTMENT OF ART

Dr. Kuruna, *Chairman*

PROFESSORS
HALLMAN
KURUNA

ASSOCIATE PROFESSORS
HAWTHORNE
McKINNEY
SIMMENDINGER

ASSISTANT PROFESSORS
HOBERG
MEHL
RING
WHITE

INSTRUCTORS
NEWTON
RARICK

BACHELOR OF ARTS

Concentration: *Art*

The concentration in art is designed to prepare students either for the broad areas of visual communications and environmental design or for

competence in a specific medium or selected media. The program also teaches the language of visual expression from the twin approaches of historical analysis and studio practice. There is special focus on art as an integrating force within the arts and letters program. The concentration must be planned under advisement from the Department of Art faculty.

Degree candidates must satisfactorily complete a minimum of 128 semester hours, distributed among four areas as follows:

I GENERAL REQUIREMENTS - - - - - 62 SEMESTER HOURS

(See opening pages, Programs of Study — locate by leafing to black bar on margin.)

II ARTS AND LETTERS CORE REQUIREMENTS - - - 18 SEMESTER HOURS

[1] PHILOSOPHY | 3 semester hours — choose from

Lit 321 Great Books I
Lit 322 Great Books II
Lit 349 Bible as Literature
Phi 374 Problems of Aesthetics
Phi 380 Ethics
Phi 461 Indian Thought
Phi 462 Chinese and Japanese Thought
Phi 470 History of Philosophy, Ancient
Phi 471 History of Philosophy, Medieval
Phil 472 History of Philosophy, Modern
Phi 486 Philosophy of Religion
Phi 490 Logic

[2] HISTORY AND LITERATURE OF THE THEATRE | 3 semester hours — choose from

Lit 332 English Drama to the Renaissance
Lit 333 Shakespeare I
Lit 334 Shakespeare II
Lit 351 Modern Drama I
Lit 352 Modern Drama II
ThA 308 History of the Theatre to the 16th Century
ThA 309 History of the Theatre from the 16th C. to Present
ThA 310 History and Aesthetics of the Oriental Theatre

[3] MUSIC HISTORY AND LITERATURE | 2-3 semester hours — choose from

Mus 122 Music History
Mus 322 American Music *
Mus 323 Aesthetics and Music Criticism *
Mus 421 Literature of the Musical Theater *
Mus 422 Musico-Dramatic Production *

Students with sufficient background in music may, under advisement, choose Music in Western Civilization II (Mus 321) in place of its less technical parallel (Mus 122). Such students may also substitute Music in Western Civilization I (Mus 221) for Fine Arts (Mus 121), which is the normal music offering under I. GENERAL REQUIREMENTS.

* These are 2-credit courses

[4] ART HISTORY | 3 semester hours — choose from

Art 401 Aesthetics: Contemporary Art Forms
Art 403 Primitive Art
Art 404 Western Art I: Antiquity and Middle Ages
Art 405 Western Art II: Renaissance, Mannerism, Baroque
Art 406 Western Art III: Rococo to Abstraction
Art 407 Oriental Art
Art 408 Arts of the United States

[5] ARTS AND LETTERS ELECTIVES | 6-7 semester hours

Choose from any of the fields shown above.

III Art Concentration Requirements - - - 33 Semester Hours

Art 101 Fine Arts
(credited to General Requirements)
Art 220 Principles of Design
Art 320 Drawing
Art History
9 semester hours beyond the 3 hours required in Core.
Choose from Art 403-404-405-406.

Studio Art
18 semester hours chosen from available offerings, in consultation with Department of Art.

IV Electives - - - - - - - - - 15 Semester Hours

Choices to be made, under advisement, from studio art and art history, as well as other offerings in the Division of Arts and Letters. Art 401-407-408 and Hum 400 are recommended.
A typical sequence of courses may be obtained from the Department of Art.

OFFERINGS IN ART

Art 101 Fine Arts
Art 201 Arts and Crafts
Art 202 Art for the Elementary Grades I
Art 203 Art for the Elementary Grades II
Art 220 Principles of Design
Art 301 Oil Painting I
Art 302 Oil Painting II
Art 303 Watercolor
Art 310 Sculpture I
Art 311 Sculpture II
Art 312 Sculpture III
Art 320 Drawing
Art 330 Ceramics
Art 340 Graphics
Art 401 Aesthetics: Contemporary Art Forms
Art 403 Primitive Art
Art 404 Western Art I: Antiquity and Middle Ages
Art 405 Western Art II: Renaissance, Mannerism, Baroque
Art 406 Western Art III: Rococo to Abstraction
Art 407 Oriental Art
Art 408 Arts of the United States

DEPARTMENT OF ENGLISH

MR. CLOKEY, *Chairman*

PROFESSORS

BAILEY
BERRY
CLOKEY
HALLEY
JORDAN
KERSHNER
McKENTY
SLAGLE
THOMAS
WEST

ASSOCIATE PROFESSORS

BOSWORTH-FLING
BROWNE
BRUTON
CORR
FORDYCE
GARRETT
GRIFFIN
HAVILAND
HENRY
HUNSBERGER
KELLEHER
LANDRUM
McDOWELL
MENKIN
MILLER
MOISIADES
NEWMAN
PAGE
PARKER
SMITH, E.
SMITH, J.
SMITH, R.
TAYLOR
WARD (PART-TIME)
WATKINS
WEISS
WISE

ASSISTANT PROFESSORS

BONKOSKI
BOYLAN
FORD
LEWIS
MATHEWS
MAYSON
McGRATH (PART-TIME)
RIMEL
ROMANELLI
THURBON

INSTRUCTORS

COMBS
GILES
HARDIGAN
NECHAS
PEICH
ROWE

BACHELOR OF ARTS

Concentration: *Literature*

The concentration in literature is a logical preparation for graduate studies, journalism, publishing, editing, public relations, advertising, specialized fields of business and industrial operations, and certain government careers. Competence in writing and familiarity with the literature of the Western world are foundations for leadership in many areas. The concentration should be planned with the adviser's help.

Candidates must complete a minimum of 128 semester hours, distributed among four areas as follows:

I GENERAL REQUIREMENTS - - - - - 62 SEMESTER HOURS
(See opening pages, Progroms of Study — locate by leafing to block bar on margin.)

The required 6 hours of a foreign language must be through the intermediate (201-202) level.

The basic literature requirement is met with Lit 121 and Lit 127.

II Arts and Letters Core Requirements - - - 18 Semester Hours

[1] PHILOSOPHY | 3 semester hours — choose from

Lit 321	Great Books I	Phi 470	History of Philosophy, Ancient
Lit 322	Great Books II	Phi 471	History of Philosophy, Medieval
Lit 349	Bible as Literature	Phi 472	History of Philosophy, Modern
Phi 374	Problems of Aesthetics	Phi 486	Philosophy of Religion
Phi 380	Ethics	Phi 490	Logic
Phi 461	Indian Thought		
Phi 462	Chinese and Japanese Thought		

[2] HISTORY AND LITERATURE OF THE THEATRE | 3 semester hours — choose from

Lit 332	English Drama to the Renaissance	ThA 308	History of the Theatre to the 16th Century
Lit 333	Shakespeare I	ThA 309	History of the Theatre from 16th C. to Present
Lit 334	Shakespeare II	ThA 310	History and Aesthetics of the Oriental Theatre
Lit 351	Modern Drama I		
Lit 352	Modern Drama II		

[3] MUSIC HISTORY AND LITERATURE | 2-3 semester hours — choose from

Mus 122	Music History	Mus 421	Literature of the Musical Theater *
Mus 322	American Music *	Mus 422	Musico-Dramatic Production *
Mus 323	Aesthetics and Music Criticism *		

Students with sufficient background in music may, under advisement, choose Music in Western Civilization II (Mus 321) in place of its less technical parallel (Mus 122). Such students may also substitute Music in Western Civilization I (Mus 221) for Fine Arts (Mus 121), which is the normal music offering under I. GENERAL REQUIREMENTS.

[4] ART HISTORY | 3 semester hours — choose from

Art 401	Aesthetics. Contemporary Art Forms	Art 406	Western Art III: Rococo to Abstraction
Art 403	Primitive Art	Art 407	Oriental Art
Art 404	Western Art I: Antiquity and Middle Ages	Art 408	Arts of the United States
Art 405	Western Art II: Renaissance, Mannerism Baroque		

[5] ARTS AND LETTERS ELECTIVES | 6-7 Semester hours

Choose from any of the fields shown above.

* These are 2-credit courses.

III LITERATURE CONCENTRATION REQUIREMENTS - - 39 SEMESTER HOURS

Eng 101 English Composition I
Eng 102 English Composition II
(101-102 credited to General Requirements)
Lit 121 General Literature I
Lit 127 General Literature II
(121-127 credited to General Requirements)
Foreign Language 201-202
(credited to General Requirements)

Electives chosen, under advisement, from the following:

Lit 223 American Literature I
Lit 224 American Literature II
Lit 225 English Literature I
Lit 226 English Literature II
Lit 329 Classical Mythology
Lit 330 Medieval Literature in England
Lit 331 Chaucer
Lit 335 Eighteenth Century Literature
Lit 336 The Romantic Movement
Lit 337 Victorian Literature
Lit 338 Modern Irish Literature
Lit 339 Tudor-Stuart Literature
Lit 340 Minority Cultures in American Literature
Lit 341 Novel to 1870
Lit 342 Contemporary Novel
Lit 343 Contemporary Poetry
Lit 344 Literary Form and Content since World War II
Lit 345 Criticism
Lit 346 Essay
Lit 348 Short Story
Eng 211 Mass Media in Society
Eng 216 News Reporting
Eng 217 Feature Writing
Eng 218 History of Communications
Eng 313 Advanced Writing
Eng 314 History of Language
Eng 315 Modern English Grammar
Eng 317 Old English Language and Literature
Eng 318 Middle English Language and Literature
Eng 319 American English
Eng 321 Creative Writing
Eng 400 English Honors Seminar
Hum 400 Contemporary Arts: An Aesthetics Approach

Note: Additional offerings in English are shown following requirements for the B.S. in Education degree, concentration in English.

IV. ELECTIVES - - - - - - - - - 9 SEMESTER HOURS

A typical sequence of courses may be obtained from the Department of English.

B.S. IN EDUCATION

Concentration: *Comprehensive English*

A student may qualify for the Pennsylvania Provisional Certificate in Comprehensive English by completing a minimum field requirement of 36 semester hours in English. Degree candidates must satisfactorily complete a minimum of 128 semester hours, distributed as follows:

I GENERAL REQUIREMENTS - - - - - - 62 SEMESTER HOURS
(See opening pages, Programs of Study — locate by leafing to black bar on margin.)

The required 6 hours of a foreign language must be through the intermediate (201-202) level.
The basic literature requirement is met with Lit 121 and Lit 127.

II PROFESSIONAL EDUCATION REQUIREMENTS - - 28 SEMESTER HOURS
(See School of Education — locate by leafing to black bar on margin.)

III SPECIALIZED PREPARATION AND ELECTIVES - - - 36 SEMESTER HOURS

Lit 121 General Literature I
Lit 127 General Literature II
(121-127 credited to General Requirements)
Eng 313 Advanced Writing
Eng 314 History of Language
Eng 315 Modern English Grammar
Eng 316 Teaching English in Secondary Schools
(credited to Professional Education)
Foreign Language 201-202
(credited to General Requirements)

Electives — at least 14 semester hours are to be elected. Twelve of these must come from the following three groups:

Group 1 *(Choose at least one)*
Eng 317 Old English Language and Literature
Eng 318 Middle English Language and Literature
Eng 319 American English
Lit 330 Medieval Literature in England
Lit 331 Chaucer
Lit 332 English Drama to the Renaissance
Lit 333 Shakespeare I
Lit 334 Shakespeare II
Lit 339 Tudor-Stuart Literature

Group 2 *(Choose at least one)*
Lit 321 Creat Books I
Lit 322 Great Books II
Lit 329 Classical Mythology
Lit 335 Eighteenth Century Literature
Lit 336 The Romantic Movement
Lit 337 Victorian Literature
Lit 338 Modern Irish Literature
Lit 341 Novel to 1870
Lit 353* Reading Interests of Secondary School Students

Group 3 *(Choose at least one)*
Eng 211 Mass Media in Society
Eng 212* Principles of Newspaper Production I
Eng 213* Principles of Newspaper Production II
Eng 214* Principles of Yearbook Production I
Eng 215* Principles of Yearbook Production II
Eng 216* News Reporting
Eng 217* Feature Writing
Eng 218* History of Communications
Eng 321 Creative Writing
Lit 340 Minority Cultures in American Literature
Lit 342 Contemporary Novel
Lit 343 Contemporary Poetry
Lit 344 Literary Form and Content since World War II
Lit 345 Criticism
Lit 346 Essay
Lit 348 Short Story
Lit 349 Bible As Literature
Lit 351 Modern Drama I
Lit 352 Modern Drama II
Hum 400 Contemporary Arts: An Aesthetics Approach

* May be counted toward credit for 36-hour field requirement only upon approval by adviser.

INTERDISCIPLINARY OFFERING

An interdisciplinary course (Hum 400 — The Contemporary Arts: An Aesthetics Approach) is given under the Division of Arts and Letters. Open to juniors and seniors, the course is a team-teaching experience drawing on the College's resources in dance, music, art, literature, and drama. (See Department of English course descriptions.)

ADDITIONAL OFFERINGS IN ENGLISH

The following courses, together with those shown above as electives in Groups 1, 2, and 3, constitute the complete offerings of the Department of English.

ENGLISH COMPOSITION

Eng 101 English Composition I
Eng 102 English Composition II
Eng 230 Business Communication
Eng 313 Advanced Writing
Eng 314 History of Language
Eng 315 Modern English Grammar
Eng 316 Teaching English in the Secondary Schools
Eng 320 Linguistics for the Elementary School Teacher
Eng 400 English Honors Seminar

LITERATURE

Lit 121 General Literature I
Lit 122 General Literature II
Lit 127 General Literature II
Lit 223 American Literature I
Lit 224 American Literature II
Lit 225 English Literature I
Lit 226 English Literature II
Lit 347 Literature of Biography
Lit 350 Children's Literature
Lit 353 Reading Interests of Secondary School Students

HUMANITIES

Hum 400 Contemporary Arts: An Aesthetics Approach

DEPARTMENT OF FOREIGN LANGUAGES

DR. ROBERTS, *Chairman*

PROFESSORS
FRIEMAN
PFUND (PART-TIME)
ROBERTS
SMITH

ASSOCIATE PROFESSORS
ESCORCIA
GLUMAC
GUTWIRTH
KUHLMANN
LOMBARDI
NUNEZ

ASSISTANT PROFESSORS
EISENSTADT
GREENE
KULASKI
KULHANEK
LANGLOIS
PUERTA
SCHNEIDER

INSTRUCTOR
BROWN

BACHELOR OF ARTS

Concentration: *Foreign Languages*

French
German
Latin
Russian
Spanish

The concentration in foreign languages is intended as a preparation for careers involving the use of bilingual skills in government, business and industry, export-import companies, travel agencies, publishing houses, and social work. It is also intended as a preparation for graduate studies leading to advanced degrees. The concentration should be planned with the help of the faculty adviser. In most instances, the student will be strongly advised to elect Applied Linguistics (Lan 302).

Candidates for the B.A. degree, with a concentration in any one of the foreign languages, must satisfactorily complete a minimum of 128 semester hours, distributed among four areas as follows:

I GENERAL REQUIREMENTS - - - - - 62 SEMESTER HOURS
(See beginning pages, Programs of Study — locate by leafing to black bar on margin.)

II ARTS AND LETTERS CORE REQUIREMENTS - - 18 SEMESTER HOURS

[1] PHILOSOPHY | 3 semester hours — choose from

Lit 321 Great Books I
Lit 322 Great Books II
Lit 349 Bible as Literature
Phi 374 Problems of Aesthetics
Phi 380 Ethics
Phi 461 Indian Thought
Phi 462 Chinese and Japanese Thought
Phi 470 History of Philosophy, Ancient
Phi 471 History of Philosophy, Medieval
Phi 472 History of Philosophy, Modern
Phi 486 Philosophy of Religion
Phi 490 Logic

[2] HISTORY AND LITERATURE OF THE THEATRE | 3 semester hours — choose from

Lit 332 English Drama to the Renaissance
Lit 333 Shakespeare I
Lit 334 Shakespeare II
Lit 351 Modern Drama I
Lit 352 Modern Drama II
ThA 308 History of the Theatre to the 16th Century
ThA 309 History of the Theatre from 16th C. to Present
ThA 310 History and Aesthetics of the Oriental Theatre

[3] MUSIC HISTORY AND LITERATURE | 2-3 semester hours — choose from

Mus 122 Music History
Mus 322 American Music *
Mus 323 Aesthetics and Music Criticism *
Mus 421 Literature of the Musical Theater *
Mus 422 Musico-Dramatic Production *

Students with sufficient background in music may, under advisement, choose Music in Western Civilization II (Mus 321) in place of its less technical parallel (Mus 122). Such students may also substitute Music in Western Civilization I (Mus 221) for Fine Arts (Mus 121), which is the normal music offering under I. GENERAL REQUIREMENTS.

* These are 2-credit courses

[4] ART HISTORY | 3 semester hours — choose from

Art 401	Aesthetics: Contemporary Art Forms	Art 406	Western Art III: Rococo to Abstraction
Art 403	Primitive Art	Art 407	Oriental Art
Art 404	Western Art I: Antiquity and Middle Ages	Art 408	Arts of the United States
Art 405	Western Art II: Renaissance, Mannerism, Baroque		

[5] ARTS AND LETTERS ELECTIVES | 6-7 semester hours
Choose from any of the fields shown above.

III FOREIGN LANGUAGE CONCENTRATION REQUIREMENTS - 39 SEMESTER HOURS
(Shown below, under the heading of each language.)

IV FREE ELECTIVES - - - - - - - - 9 SEMESTER HOURS
Applied Linguistics (Lan 302) is strongly recommended. Courses in music, literature, art, or the social sciences will be suggested in the light of the student's particular interests.

FRENCH — CONCENTRATION REQUIREMENTS (39 HOURS)

Fre 101*	Elementary French I	Fre 203	Advanced Grammar and Composition
Fre 102*	Elementary French II	Fre 204	Advanced Oral French
Fre 201	Intermediate French I	Fre 205	Survey of Literature I
Fre 202	Intermediate French II	Fre 206	Survey of Literature II
(201-202 credited to General Requirements)			

Additional courses to complete the 39 hours are to be selected, under advisement, from French electives and/or related fields.

ELECTIVES

Electives in French are shown following Specialized Preparation for the B.S. in Education (French).

A typical sequence of courses may be obtained from the Department of Foreign Languages.

GERMAN — CONCENTRATION REQUIREMENTS (39 HOURS)

Ger 101*	Elementary German I	Ger 203	Advanced Grammar and Composition
Ger 102*	Elementary German II	Ger 204	Advanced Oral German
Ger 201	Intermediate German I	Ger 205	Survey of Literature I
Ger 202	Intermediate German II	Ger 206	Survey of Literature II
(201-202 credited to General Requirements)			

Additional courses to complete the 39 hours are to be selected, under advisement, from German electives and/or related fields.

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* Foreign language majors receive no credit toward graduation for 101 and 102 except in the case of students who, having completed their language requirements in their major, take the 101 and/or 102 level(s) of a second foreign language as free elective(s).

ELECTIVES

Electives in German are shown following Specialized Preparation for the B.S. in Education (German).

A typical sequence of courses may be obtained from the Department of Foreign Languages.

LATIN — CONCENTRATION REQUIREMENTS (39 HOURS)

Lat 101* Elementary Latin I
Lat 102* Elementary Latin II
Lat 201 Cicero
Lat 202 Vergil
(201-202 credited to General Requirements)
Lat 303 Latin Prose Composition

Additional courses to complete the 39 hours are to be selected, under advisement, from Latin electives and/or related fields.

ELECTIVES

Electives in Latin are shown following Specialized Preparation for the B.S. in Education (Latin).

A typical sequence of courses may be obtained from the Department of Foreign Languages.

RUSSIAN — CONCENTRATION REQUIREMENTS (39 HOURS)

Rus 101* Elementary Russian I
Rus 102* Elementary Russian II
Rus 201 Intermediate Russian I
Rus 202 Intermediate Russian II
(201-202 credited to General Requirements)
Rus 203 Advanced Grammar and Composition
Rus 204 Advanced Oral Russian
Rus 205 Advanced Readings in Russian I
Rus 206 Advanced Readings in Russian II

Additional courses to complete the 39 hours are to be selected, under advisement, from Russian electives and/or related fields.

ELECTIVES

Electives in Russian are shown following Specialized Preparation for the B.S. in Education (Russian).

A typical sequence of courses may be obtained from the Department of Foreign Languages.

SPANISH — CONCENTRATION REQUIREMENTS (39 HOURS)

Spa 101* Elementary Spanish I
Spa 102* Elementary Spanish II
Spa 201 Intermediate Spanish I
Spa 202 Intermediate Spanish II
(201-202 credited to General Requirements)
Spa 203 Advanced Grammar and Composition
Spa 204 Advanced Oral Spanish
Spa 205 Survey of Literature (Golden Age)
Spa 206 Survey of Literature (Since 1800)

Additional courses to complete the 39 hours are to be selected, under advisement, from electives in Spanish and/or related fields.

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* Foreign language majors receive no credit toward graduation for 101 and 102 except in the case of students who, having completed their language requirements in their major, take the 101 and/or 102 level(s) of a second foreign language as free elective(s).

ELECTIVES

Electives in Spanish are shown following Specialized Preparation for the B.S. in Education (Spanish).

A typical sequence of courses may be obtained from the Department of Foreign Languages.

B.S. IN EDUCATION

Concentration: *Foreign Languages*

French
German
Latin
Russian
Spanish

A student may qualify for the Pennsylvania Provisional Certificate in a foreign language by completing a minimum field requirement of 30 semester hours in the language. Pennsylvania Certification in the Modern Foreign Languages is contingent on satisfactorily passing the Modern Language Association Proficiency Tests for Teachers and Advanced Students.

Degree candidates must satisfactorily complete a minimum of 128 semester hours, distributed among four areas as follows:

I GENERAL REQUIREMENTS - - - - - - 56 SEMESTER HOURS
(See opening pages, Programs of Study — locate by leafing to black bar on margin.)

II PROFESSIONAL EDUCATION REQUIREMENTS - - 28 SEMESTER HOURS
(See School of Education — locate by leafing to black bar on margin.)

III SPECIALIZED PREPARATION - - - - - - 30 SEMESTER HOURS
(Shown below under the heading of each language.)

IV ELECTIVES - - - - - - - - - - 14 SEMESTER HOURS
Applied Linguistics (Lan 302) is strongly recommended.

FRENCH — SPECIALIZED PREPARATION (30 HOURS)

Fre 101* Elementary French I
Fre 102* Elementary French II
Fre 201 Intermediate French I
Fre 202 Intermediate French II
Fre 203 Advanced Grammar and Composition
Fre 204 Advanced Oral French
Fre 205 Survey of Literature I
Fre 206 Survey of Literature II
Lan 301 Teaching of Modern Languages
(credited to Professional Educotion)

Additional courses to complete the 30 semester hours must be selected from French electives.

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* Foreign language majors receive no credit toward graduation for 101 and 102 except in the case of students who, having completed their language requirements in their major, take the 101 and/or 102 level(s) of a second foreign language as free elective(s).

ELECTIVES IN FRENCH

Fre 304 French Civilization
Fre 401 French Literature of the 18th Century
Fre 402 French Literature of the 19th Century
Fre 403 Contemporary French Literature
Fre 404 French Classical Drama
Fre 410 Honors Seminar
Fre 411 Honors Seminar

A typical sequence of courses may be obtained from the Department of Foreign Languages.

GERMAN — SPECIALIZED PREPARATION (30 HOURS)

Ger 101* Elementary German I
Ger 102* Elementary German II
Ger 201 Intermediate German I
Ger 202 Intermediate German II
Ger 203 Advanced Grammar and Composition
Ger 204 Advanced Oral German
Ger 205 Survey of Literature I
Ger 206 Survey of Literature II
Lan 301 Teaching of Modern Languages
(credited to Professional Education)

Additional courses to complete the 30 semester hours must be selected from German electives.

ELECTIVES IN GERMAN

Ger 401 The Age of Goethe
Ger 402 Contemporary German Literature
Ger 403 The German Short Story
Ger 404 Goethe
Ger 405 Scientific German
Ger 406 German Civilization
Ger 410 Honors Seminar
Ger 411 Honors Seminar

A typical sequence of courses may be obtained from the Department of Foreign Languages.

LATIN — SPECIALIZED PREPARATION (30 HOURS)

Lat 101* Elementary Latin I
Lat 102* Elementary Latin II
Lat 201 Cicero
Lat 202 Vergil
Lat 301 Teaching of Latin
(credited to Professional Education)
Lat 303 Latin Prose Composition

Additional courses to complete the 30 semester hours must be selected from electives in Latin.

ELECTIVES IN LATIN

Lat 302 The Lyric Poets
Lat 304 The Elegiac Poets
Lat 305 Reading Course
Lat 306 Roman Historians
Lat 401 Roman Drama
Lat 402 Roman Philosophy
Lat 403 Roman Satire
Lat 404 The Latin Novel
Lat 405 Medieval Latin
Lat 406 Tutorial Course

A typical sequence of courses may be obtained from the Department of Foreign Languages.

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* Foreign language majors receive no credit toward graduation for 101 and 102 except in the case of students who, having completed their language requirements in their major, take the 101 and/or 102 level(s) of a second foreign language as free elective(s).

RUSSIAN — SPECIALIZED PREPARATION (30 HOURS)

Rus 101* Elementary Russian I
Rus 102* Elementary Russian II
Rus 201 Intermediate Russian I
Rus 202 Intermediate Russian II
Rus 203 Advanced Grammar and Composition
Rus 204 Advanced Oral Russian
Rus 205 Advanced Readings I
Rus 206 Advanced Readings II
Lan 301 Teaching of Modern Languages
(credited to Professional Education)

Additional courses to complete the 30 semester hours must be selected from electives in Russian.

ELECTIVES IN RUSSIAN

Rus 303 Scientific Russian I
Rus 304 Scientific Russian II
Rus 401 The Russian Novel
Rus 402 The Russian Drama
Rus 410 Honors Seminar
Rus 411 Honors Seminar

A typical sequence of courses may be obtained from the Department of Foreign Languages.

SPANISH — SPECIALIZED PREPARATION (30 HOURS)

Spa 101* Elementary Spanish I
Spa 102* Elementary Spanish II
Spa 201 Intermediate Spanish I
Spa 202 Intermediate Spanish II
Spa 203 Advanced Grammar and Composition
Spa 204 Advanced Oral Spanish
Spa 205 Survey of Literature (Golden Age)
Spa 206 Survey of Literature (Since 1800)
Lan 301 Teaching of Modern Languages
(credited to Professional Education)

Additional courses to complete the 30 semester hours must be selected from electives in Spanish.

ELECTIVES IN SPANISH

Spa 304 Spanish Civilization
Spa 401 Spanish-American Literature
Spa 402 Contemporary Spanish Literature
Spa 403 The Spanish "Comedia"
Spa 404 The Picaresque Novel
Spa 410 Honors Seminar
Spa 411 Honors Seminar

A typical sequence of courses may be obtained from the Department of Foreign Languages.

COURSES COMMON TO ALL LANGUAGES

Lan 301 Teaching of Modern Languages
Lan 302 Applied Linguistics
Lan. 303 Foreign Language in the Elementary School
Lan 340 Introduction to Linguistics
Lan 380 Language and Culture

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* Foreign language majors receive no credit toward graduation for 101 and 102 except in the case of students who, having completed their language requirements in their major, take the 101 and/or 102 level(s) of a second foreign language as free elective(s).

GREEK AND ITALIAN

The following courses in Greek and Italian are offered, but no major or minor field is available.

GREEK

Gre 101 Beginning Greek I
Gre 102 Beginning Greek II
Gre 201 Intermediate Greek I
Gre 202 Intermediate Greek II

ITALIAN

Ita 101 Elementary Italian I
Ita 102 Elementary Italian II
Ita 201 Intermediate Italian I
Ita 202 Intermediate Italian II

THE JUNIOR YEAR ABROAD PROGRAM

The following courses in French are offered at the University of Montpellier, France, under the Junior Year Abroad Program sponsored by West Chester State College. The program is designed for prospective teachers of French in order to give them a firsthand acquaintance with French life and enable them to achieve a native command of the language.

The program is open to any student enrolled in a Pennsylvania college or university who has completed the equivalent of two years of college French and is able to take lectures in French. During the time the student is enrolled in the program, he is a student of West Chester State College and will receive a minimum of 30 credits for a full two semesters of college work after successful completion of the year-abroad program of studies. Each course runs for two semesters and is conducted entirely in French by French professors.

COURSE OFFERINGS

Fre 361-62 Advanced Grammar and Composition
Fre 363-64 Advanced French Conversation
Fre 365-66 Phonetics and Translation
Fre 367-68 Contemporary French Civilization
Fre 369-70 Literary Studies

DEPARTMENT OF PHILOSOPHY

DR. CLAGHORN, *Chairman*

PROFESSOR
CLAGHORN

ASSOCIATE PROFESSORS
CAPUTO (PART-TIME)
MEYER (PART-TIME)
PLATT
RIUKAS
STRUCKMEYER

ASSISTANT PROFESSORS
BANYACSKI
KAPUNAN

INSTRUCTOR
WILLIAMS (PART-TIME)

BACHELOR OF ARTS

Concentration: *Philosophy*

Philosophy aims to familiarize the student with our intellectual heritage, to promote clear thinking, and to encourage an understanding of other people. As philosophy analyzes and relates many disciplines, it is general education in the broadest sense. The philosophy concentration is standard preparation for opportunities in business and industry, particularly in connection with computers. It leads also to government posts dealing with personnel, problem-solving, and work with other cultures. Philosophy is recommended for pre-law and pre-seminary students. This concentration opens the way to graduate work and to careers in college teaching.

Candidates must satisfactorily complete a minimum of 128 semester hours, distributed among four areas as follows:

I GENERAL REQUIREMENTS - - - - - 62 SEMESTER HOURS

(See opening pages, Programs of Study. Locate by leafing to black bar on margin.)

II ARTS AND LETTERS CORE REQUIREMENTS - - 18 SEMESTER HOURS

[1] PHILOSOPHY | 3 semester hours — choose from

Lit 321	Great Books I	Phi 470	History of Philosophy, Ancient
Lit 322	Great Books II	Phi 471	History of Philosophy Medieval
Lit 349	Bible as Literature	Phi 472	History of Philosophy, Modern
Phi 374	Problems of Aesthetics	Phi 486	Philosophy of Religion
Phi 380	Ethics	Phi 490	Logic
Phi 461	Indian Thought		
Phi 462	Chinese and Japanese Thought		

[2] HISTORY AND LITERATURE OF THE THEATRE | 3 semester hours — choose from

Lit 332 English Drama to the Renaissance	ThA 308 History of the Theatre to the 16th Century
Lit 333 Shakespeare I	ThA 309 History of the Theatre from 16th C. to Present
Lit 334 Shakespeare II	ThA 310 History and Aesthetics of the Oriental Theatre
Lit 351 Modern Drama I	
Lit 352 Modern Drama II	

[3] MUSIC HISTORY AND LITERATURE | 2-3 semester hours — choose from

Mus 122 Music History	Mus. 421 Literature of the Musical Theater *
Mus 322 American Music *	Mus 422 Musico-Dramatic Production *
Mus 323 Aesthetics and Music Criticism *	

Students with sufficient background in music may, under advisement, choose Music in Western Civilization II (Mus 321) in place of its less technical parallel (Mus 122). Such students may also substitute Music in Western Civilization I (Mus 221) for Fine Arts (Mus 121), which is the normal music offering under I. GENERAL REQUIREMENTS.

[4] ART HISTORY | 3 semester hours — choose from

Art 401 Aesthetics: Contemporary Art Forms	Art 406 Western Art III: Rococo to Abstraction
Art 403 Primitive Art	Art 407 Oriental Art
Art 404 Western Art I: Antiquity and Middle Ages	Art 408 Arts of the United States
Art 405 Western Art II: Renaissance, Mannerism, Baroque	

[5] ARTS AND LETTERS ELECTIVES | 6-7 semester hours

Choose from any of the fields shown above.

* These are 2-credit courses.

III PHILOSOPHY CONCENTRATION REQUIREMENTS - - 39 SEMESTER HOURS

Phi 470 History of Philosophy, Ancient	Phi 499 Seminar in Modern Philosophy
Phi 472 History of Philosophy, Modern	(Plus 27 hours chosen under advisement; Phil 374, 380, 490 recommended.)
Phi 498 Seminar in Ancient Philosophy	

IV ELECTIVES - - - - - - - - 9 SEMESTER HOURS

A typical sequence of courses may be obtained from the Department of Philosophy.

OFFERINGS IN PHILOSOPHY

Phi 280	Introduction to Philosophy
Phi 374	Problems of Aesthetics
Phi 380	Ethics
Phi 460	Near Eastern Religions
Phi 461	Indian Thought
Phi 462	Chinese and Japanese Thought
Phi 470	History of Philosophy, Ancient
Phi 471	History of Philosophy, Medieval
Phi 472	History of Philosophy, Modern
Phi 483	Philosophy of History
Phi 484	American Philosophy
Phi 485	Contemporary Philosophy
Phi 486	Philosophy of Religion
Phi 487	Philosophy of Science
Phi 488	Theory of Knowledge
Phi 490	Logic
Phi 491	Advanced Logic
Phi 498	Seminar in Ancient Philosophy
Phi 499	Seminar in Modern Philosophy

DEPARTMENT OF SPEECH AND THEATRE

CHAIRED BY INTERIM INTRADEPARTMENTAL COMMITTEE

PROFESSOR	ASSOCIATE PROFESSORS	ASSISTANT PROFESSORS
HAYES	COPE GRIFFITH JACOBS PEREGO PETERSON SUPPAN WARKOMSKI	CASAGRANDE MANBURG MARTEL MEISWINKEL INSTRUCTOR DEFENDI (PART-TIME)

The aims of the Department of Speech and Theatre are to develop the student into an independent, responsible, and effective citizen by enabling him to grasp the nature and scope of the communicative process and to assist him to master the skills of oral communication and the performing arts. All four of the Department's degree programs have certain courses in common. Beyond these it is possible to develop curricular and co-curricular programs emphasizing one of three areas: speech, theatre, or speech pathology and audiology. The concentration in the last of these areas is a special-education discipline equipping the student to teach the speech and hearing handicapped in the public schools of Pennsylvania.

BACHELOR OF ARTS DEGREES

A. Concentration: *Speech Arts*

Candidates must satisfactorily complete a minimum of 128 semester hours, distributed among four areas as follows:

I GENERAL REQUIREMENTS - - - - - 62 SEMESTER HOURS

(See opening pages, Programs of Study — locate by leafing to black bar on margin.)

II ARTS AND LETTERS CORE REQUIREMENTS - - 18 SEMESTER HOURS

[1] PHILOSOPHY | 3 semester hours — choose from

Lit 321 Great Books I
Lit 322 Great Books II
Lit 349 Bible as Literature
Phi 374 Problems of Aesthetics
Phi 380 Ethics
Phi 461 Indian Thought
Phi 462 Chinese and Japanese Thought
Phi 470 History of Philosophy, Ancient
Phi 471 History of Philosophy Medieval
Phi 472 History of Philosophy, Modern
Phi 486 Philosophy of Religion
Phi 490 Logic

[2] HISTORY AND LITERATURE OF THE THEATRE | 3 semester hours — choose from

Lit 332 English Drama to the Renaissance
Lit 333 Shakespeare I
Lit 334 Shakespeare II
Lit 351 Modern Drama I
Lit 352 Modern Drama II
ThA 308 History of the Theatre to the 16th Century
ThA 309 History of the Theatre from 16th C. to Present
ThA 310 History and Aesthetics of the Oriental Theatre

[3] MUSIC HISTORY AND LITERATURE | 2-3 semester hours — choose from

Mus 122 Music History
Mus 322 American Music *
Mus 323 Aesthetics and Music Criticism *
Mus 421 Literature of the Musical Theater *
Mus 422 Musico-Dramatic Production *

Students with sufficient background in music may, under advisement, choose Music in Western Civilization II (Mus 321) in place of its less technical parallel (Mus 122). Such students may also substitute Music in Western Civilization I (Mus 221) for Fine Arts (Mus 121), which is the normal music offering under I. GENERAL REQUIREMENTS.

[4] ART HISTORY | 3 semester hours — choose from

Art 401 Aesthetics: Contemporary Art Forms
Art 403 Primitive Art
Art 404 Western Art I: Antiquity and Middle Ages
Art 405 Western Art II: Renaissance, Mannerism, Baroque
Art 406 Western Art III: Rococo to Abstraction
Art 407 Oriental Art
Art 408 Arts of the United States

[5] ARTS AND LETTERS ELECTIVES | 6-7 semester hours

Choose from any of the fields shown above.

* These are 2-credit courses.

III Speech Arts Concentration Requirements - - 39 Semester Hours

Sph 101 Fundamentals of Speaking
(credited to General Requirements)
Sph 103 Discussion
ThA 105 Oral Interpretation
Sph 106 Introduction to Phonetics
Sph 201 Public Address
Sph 204 General Semantics
ThA 101 Introduction to Theatre
ThA 309 History of Theatre 16th C. to Present
SpP 201 Introduction to Speech Problems

Additional courses in Speech and Theatre as advised. (15 semester hours.)

IV Electives - - - - - - - - - 9 Semester Hours

A typical sequence of courses may be obtained from the Department of Speech and Theatre.

B. Concentration: *Theatre Arts*

Candidates for the B.A. degree with a concentration in Theatre Arts must satisfactorily complete a minimum of 128 semester hours, distributed among four areas as follows:

I General Requirements - - - - - 62 Semester Hours

(See opening pages, Programs of Study — locate by leafing to black bar on margin.)

II Arts and Letters Core Requirements - - - 18 Semester Hours

(See Concentration: Speech Arts above)

III Theatre Arts Concentration Requirements - 40 Semester Hours

ThA 100 Theatre Practice
ThA 101 Introduction to Theatre
ThA 102 Beginning Acting
ThA 105 Oral Interpretation
(credited to General Requirements)
ThA 204 Stagecraft and Management
ThA 301 Play Direction
ThA 308 History of Theatre to 16th Century
Electives in Theatre Arts as advised.
ThA 309 History of Theatre 16th C. to Present
Sph 103 Discussion
Sph 401 Psychology of Speech
Lit 332 English Drama to the Renaissance
Lit 351 Modern Drama I
Lit 352 Modern Drama II
PEd 341 Modern Dance I
(credited to General Requirements)
PEd 342 Modern Dance II

IV Electives - - - - - - - - - 8 Semester Hours

A typical sequence of courses may be obtained from the Department of Speech and Theatre.

B.S. IN EDUCATION

A. Concentration: *Speech and Theatre*

A student may qualify for the Pennsylvania Provisional Certificate in Speech and Theatre by completing a minimum field requirement of 34 semester hours. Degree candidates must satisfactorily complete a minimum of 128 semester hours distributed in four areas as follows:

I GENERAL REQUIREMENTS - - - - - - - 56 SEMESTER HOURS

(See opening pages, Programs of Study — locate by leafing to black bar on margin.)

II PROFESSIONAL EDUCATION REQUIREMENTS - - 28 SEMESTER HOURS

(See School of Education — locate by leafing to black bar on margin.)

III SPECIALIZED PREPARATION - - - - - 34 SEMESTER HOURS

Sph 101 Fundamentals of Speaking
(credited to General Requirements)
Sph 103 Discussion
Sph 105 Voice and Diction
Sph 201 Public Address
Sph 203 Argumentation and Debate
ThA 100 Theatre Practice
ThA 101 Introduction to Theatre
ThA 102 Beginning Acting
ThA 105 Oral Interpretation
ThA 206 Educational Theatre Production
ThA 301 Play Direction
SpP 201 Introduction to Speech Problems
Sph 401 Psychology of Speech
Sph 402 Teaching Speech and Drama
(credited to Professional Education)

IV ELECTIVES - - - - - - - - - 10 SEMESTER HOURS

A typical sequence of courses may be obtained from the Department of Speech and Theatre.

B. Concentration: *Speech Pathology and Audiology*

A student may qualify for the Pennsylvania Provisional Certificate in Teaching the Speech and Hearing Handicapped — allowing him to teach the subject in the public schools of the Commonwealth — by completing a minimum field requirement of 38 – 40 hours. Degree candidates must satisfactorily complete a minimum of 128 semester hours distributed among four areas as follows:

I GENERAL REQUIREMENTS - - - - - 56 SEMESTER HOURS

(See opening pages, Programs of Study — locate by leafing to black bar on margin.)

The required 8 semester hours of science are met with Basic Biological Science (Bio 100) and Anatomy of Speech and Hearing Mechanisms (Bio 260).

II PROFESSIONAL EDUCATION - - - - - 32 SEMESTER HOURS

EdF 100	School and Society	3	EdS 412	Student Teaching, including Practicum	12
EdP 250	Psychology of Learning and Development	3	Psy 241	Psychology of Exceptional Children	3
EdS 306	Field Experience in Education	3	Psy 370	Mental Hygiene	3
EdP 351	Evaluation and Measurement	2	SpP 402	Methods in Teaching the Speech and Hearing Handicapped	3

III SPECIALIZED PREPARATION - - - - 38 - 40 SEMESTER HOURS

Requirements in Speech Pathology and Audiology

SpP 100 Bases of Speech
SpP 202 Speech Pathology I
SpP 203 Speech Pathology II
SpP 301 Introduction to Hearing Problems
SpP 302 Speech and Language Development
SpP 303 Clinical Practicum (4 - 6 s.h.)
SpP 304 Auditory Training and Speech Reading
SpP 305 Audiometry
SpP 403 Clinical Principles in Speech and Hearing
SpP 404 Inter-Professional Seminar in Speech and Hearing

Requirements in Other Fields

Sph 106 Introduction to Phonetics
Bio 100 Basic Biological Science (credited to General Requirements)
Bio 260 Anatomy of Speech and Hearing Mechanisms (credited to General Requirements)
Mat 121 Statistics
Mus 414 Musical Acoustics

IV ELECTIVES - - - - - - - - 0 - 2 SEMESTER HOURS

A typical sequence of courses may be obtained from the Department of Speech and Theatre. Offerings of the Department are shown below.

OTHER PROGRAMS IN SPECIAL EDUCATION

In addition to the degree program delineated above, West Chester offers two other opportunities for study in the area of special education. Both lead to certification — one for teaching the mentally retarded and the other for teaching the physically handicapped. See *Certification Programs in Special Education* under School of Education.

OFFERINGS IN SPEECH AND THEATRE

SPEECH

Sph 101 Fundamentals of Speaking
Sph 102 Advanced Public Speaking
Sph 103 Discussion
Sph 105 Voice and Diction
Sph 106 Introduction to Phonetics
Sph 201 Public Address
Sph 203 Argumentation and Debate
Sph 204 General Semantics
Sph 303 Advanced Argumentation and Debate
Sph 401 Psychology of Speech
Sph 402 Teaching Speech and Drama
Sph 403 Persuasion

SPEECH PATHOLOGY AND AUDIOLOGY

SpP 000 Remedial Speech
SpP 100 Bases of Speech
SpP 201 Introduction to Speech Problems
SpP 202 Speech Pathology I
SpP 203 Speech Pathology II
SpP 301 Introduction to Hearing Problems
SpP 302 Speech and Language Development
SpP 303 Clinical Practicum
SpP 304 Auditory Training and Speech Reading
SpP 305 Audiometry
SpP 402 Methods in Teaching the Speech and Hearing Handicapped
SpP 403 Clinical Principles in Speech and Hearing
SpP 404 Inter-Professional Seminar in Speech and Hearing

THEATRE ARTS

ThA 100 Theatre Practice
ThA 101 Introduction to the Theatre
ThA 102 Beginning Acting I
ThA 103 Beginning Acting II
ThA 104 Introduction to Technical Production
ThA 105 Oral Interpretation
ThA 201 Stage Makeup
ThA 202 Television Production Techniques
ThA 204 Stagecraft and Production Management
ThA 205 Advanced Oral Interpretation
ThA 206 Educational Theatre Production
ThA 207 Creative Dramatics
ThA 301 Play Direction
ThA 302 Directing and Producing the Instructional Television Program
ThA 304 Scene Design
ThA 305 Stage Costuming
ThA 307 Stage Lighting
ThA 308 History of the Theatre to the 16th C.
ThA 309 History of the Theatre, 16th C. to Present
ThA 310 History and Aesthetics of the Oriental Theatre
ThA 401 Advanced Directing
ThA 402 Directing and Producing the Dramatic Television Program
ThA 403 Advanced Acting
ThA 404 Advanced Scene Design

DIVISION OF SCIENCES AND MATHEMATICS

Albert E. Filano, *Director*

BACHELOR OF ARTS

Concentrations in

Biology
Chemistry
Mathematics
Physics

BACHELOR OF SCIENCE IN EDUCATION

Concentrations in

Biology
Chemistry
Mathematics
Physics
Comprehensive Science
Earth and Space Science
Cooperative Degree Programs for
Dental Hygienists
Public School Nurses

DEPARTMENT OF BIOLOGY

MR. MCDONNELL, *Interim Chairman*

PROFESSORS

CINQUINA
DORCHESTER
OVERLEASE
TREZISE

ASSOCIATE PROFESSORS

BERNHARDT
BROWNELL
CULLEN
DECARO (PART-TIME)
MARTINEZ
MCDONNELL
SKILLEN

ASSISTANT PROFESSORS

BLISS
BROWN
JONES
ROMIG
WEBSTER
WOODRUFF

INSTRUCTOR

WOLFE (PART-TIME)

The concentration in biology centers about a core of courses which emphasize broad unifying principles. The foundation subjects, botany and zoology, are followed by the integrative disciplines of genetics, ecology, and general physiology. Available electives provide enriching experiences in both the basic and taxonomic subdivisions of biology.

BACHELOR OF ARTS

Concentration: *Biology*

The B. A. program in biology provides both the liberal education and the special preparation required for careers in college teaching, government service, independent and industrial research, science-related sales and public relations, as well as private enterprise. This program also prepares students to qualify for admission to graduate and professional schools.
Candidates must satisfactorily complete a minimum of 128 semester hours distributed among four areas as follows:

I GENERAL REQUIREMENTS - - - - - 62 SEMESTER HOURS
(See opening pages, Programs of Study — locate by leafing to black bar on margin.)
The required 6 semester hours of foreign language through the intermediate level must be met in French, German, or Russian.

II SCIENCE CORE REQUIREMENTS - - - - 28 SEMESTER HOURS

Che 103 General Chemistry I
Che 104 General Chemistry II
(103-4 credited to General Requirements)
Mat 105 College Algebra and Trigonometry
(credited to General Requirements)
Mat 141 Analytic Geometry and Calculus I
Che 231 Organic Chemistry I
Che 232 Organic Chemistry II
Phy 103 General Physics I
Phy 104 General Physics II
Mat 142 Analytic Geometry and Calculus II
Mat 241 Analytic Geometry and Calculus III
(or)
Mat 121 Statistics

Elective in astronomy or earth science.

III BIOLOGY CONCENTRATION REQUIREMENTS - - 35 SEMESTER HOURS

Bio 111 Botany I
Bio 112 Botany II
Bio 141 Zoology I
Bio 142 Zoology II
Bio 301 Genetics
Bio 302 Ecology
Bio 344 General Physiology
Bio 450 Biology Seminar

A minimum of 9 additional semester hours in biology must be chosen from available electives.

IV ELECTIVES - - - - - - - - - 3 SEMESTER HOURS
Offerings in biology are shown following requirements for the B.S. in Education degree.

A typical sequence of courses may be obtained from the Department of Biology.

B.S. IN EDUCATION

Concentration: *Biology*

A student may qualify for the Pennsylvania Provisional Certificate in biology by completing a minimum field requirement of 39 semester hours as indicated below.

Degree candidates must satisfactorily complete a minimum of 128 semester hours distributed among four areas as follows:

I GENERAL REQUIREMENTS - - - - - - 56 SEMESTER HOURS
(See opening pages, Programs of Study — locate by leafing to black bar on margin.)

II PROFESSIONAL EDUCATION REQUIREMENTS - - 28 SEMESTER HOURS
(See School of Education — locate by leafing to black bar on margin.)

III SPECIALIZED PREPARATION - - - - - - 39 SEMESTER HOURS

Required in Related Fields

Che 103 General Chemistry I
Che 104 General Chemistry II
(103-4 credited to General Requirements)
Mat 105 College Algebra and Trigonometry
(credited to General Requirements)
Che 231 Organic Chemistry I
Sci 350 Teaching Biology in Secondary Schools
(credited to Professional Education)

Required in Biology

Bio 111 Botany I
Bio 112 Botany II
Bio 141 Zoology I
Bio 142 Zoology II
Bio 301 Genetics
Bio 302 Ecology
Bio 344 General Physiology
Bio 450 Biology Seminar

A minimum of an additional 9 semester hours in biology must be chosen from available electives.

IV ELECTIVES - - - - - - - - - 5 SEMESTER HOURS

A typical sequence of courses may be obtained from the Department of Biology.

OFFERINGS IN BIOLOGY

Bio 100 Basic Biological Science
Bio 111 Botany I
Bio 112 Botany II
Bio 141 Zoology I
Bio 142 Zoology II
Bio 210 Field Botany
Bio 241 Field Zoology
Bio 242 Ornithology
Bio 243 Comparative Anatomy
Bio 260 Anatomy of Speech and Hearing Mechanisms
Bio 261 Human Anatomy
Bio 262 Human Physiology
Bio 301 Genetics
Bio 301E Basic Genetics
Bio 302 Ecology
Bio 302E Basic Ecology
Bio 310 Bacteriology
Bio 341 Entomology
Bio 341E Basic Entomology
Bio 343 Physiological Chemistry
Bio 344 General Physiology
Bio 345 Plant Physiology
Bio 346 Plant Structure
Bio 351 Embryology
Bio 355 Wildlife Conservation
Bio 402 Cytology
Bio 411 Plant Taxonomy
Bio 450 Biology Seminar
Bio 452 Special Problems in Biology

DEPARTMENT OF CHEMISTRY

DR. REYNOLDS, *Acting Chairman*

PROFESSORS	ASSOCIATE PROFESSORS	INSTRUCTOR
BRAVO	ASHKENAZ	SHAW (PART-TIME)
GREENBERG	DURAND	
REYNOLDS	MEDEIROS	
	RACHINSKY	
	RUDNICK	
	WILLIAMS	

The basic core program in the specialization in chemistry is designed to provide a survey of the four principal branches of that science: analytical, inorganic, organic, and physical chemistry. This is followed by a required sequence of courses covering the various areas of modern chemistry.

BACHELOR OF ARTS

Concentration: *Chemistry*

The B.A. program in chemistry enables the student to receive basic preparation required for the career of his choice. Such choices could be college and university teaching, positions as professional chemists, research work, and various services in industry and government. In all cases, the program will prepare the student for graduate study in the field of chemistry.

Candidates must satisfactorily complete a minimum of 128 semester hours distributed among four areas as follows:

I GENERAL REQUIREMENTS - - - - - - 62 SEMESTER HOURS

(See opening pages, Programs of Study — locate by leafing to black bar on margin.)

The required 6 semester hours of foreign language through the intermediate level must be met in French, German, or Russian.

II SCIENCE CORE REQUIREMENTS - - - - - 28 SEMESTER HOURS

Biological Sciences: *Either*
Bio 111-112 Botany I-II *or*
Bio 141-142 Zoology I-II
Phy 101-102 Physics I-II
Elective in Astronomy or Earth Science
Mat 141 Analytic Geometry and Calculus I
(credited to General Requirements)
Mat 142 Analytic Geometry and Calculus II
Mat 241 Analytic Geometry and Calculus III
Mat 242 Analytic Geometry and Calculus IV

III Chemistry Concentration Requirements - - 31 Semester Hours

Che 103 General Chemistry I
Che 104 General Chemistry II
(103-4 credited to General Requirements)
Che 231 Organic Chemistry I
Che 232 Organic Chemistry II
Che 321 Quantitative Analysis
Che 324 Instrumental Methods of Analysis
Che 341 Physical Chemistry I
Che 342 Physical Chemistry II
Che 410 Advanced Inorganic Chemistry
Che 432 Qualitative Organic Analysis
Che 491 Seminar in Chemistry

IV Electives - - - - - - - - - 7 Semester Hours

(Offerings in chemistry are shown following requirements for the B.S. in Education degree.)

A typical sequence of courses may be obtained from the Department of Chemistry.

B.S. IN EDUCATION

Concentration: *Chemistry*

A student may qualify for the Pennsylvania Provisional Certificate in chemistry by completing a minimum field requirement of 41 semester hours as indicated below. Degree candidates must satisfactorily complete a minimum of 128 semester hours distributed among four areas as follows:

I General Requirements - - - - - 56 Semester Hours

(See opening pages, Programs of Study — locate by leafing to black bar on margin.)

II Professional Education Requirements - - 28 Semester Hours

(See School of Education — locate by leafing to black bar on margin.)

III Specialized Preparation - - - - - 41 Semester Hours

Required in Related Fields

Phy 101 Physics I
Phy 102 Physics II
(101-2 credited to General Requirements)
Mat 141 Analytic Geometry and Calculus I
(credited to General Requirements)
Mat 142 Analytic Geometry and Calculus II
Mat 241 Analytic Geometry and Calculus III
Sci 350 Teaching Science in Secondary Schools
(credited to Professional Education)

Required in Chemistry

Che 103 General Chemistry I
Che 104 General Chemistry II
Che 231 Organic Chemistry I
Che 232 Organic Chemistry II
Che 321 Quantitative Analysis
Che 324 Instrumental Methods of Analysis
Che 341 Physical Chemistry I
Che 342 Physical Chemistry II
Che 410 Advanced Inorganic Chemistry

IV Electives - - - - - - - - - 3 Semester Hours

A typical sequence of courses may be obtained from the Department of Chemistry.

OFFERINGS IN CHEMISTRY

Che 100 Principles of Chemistry
Che 101 Chemistry for Nurses
Che 103 General Chemistry I
Che 104 General Chemistry II and Qualitative Analysis
Che 231 Organic Chemistry I
Che 232 Organic Chemistry II
Che 321 Quantitative Analysis
Che 324 Instrumental Methods of Analysis
Che 341 Physical Chemistry I
Che 342 Physical Chemistry II
Che 345 Physical Chemistry for the Life Sciences
Che 401 History and Literature of Chemistry
Che 408 Industrial Chemical Processes
Che 410 Advanced Inorganic Chemistry
Che 432 Qualitative Organic Analysis
Che 441 Introductory Polymer Chemistry
Che 471 Fundamentals of Biochemistry
Che 480 Introduction to Chemical Research
Che 491 Seminar in Chemistry

DEPARTMENT OF MATHEMATICS

Dr. Filano, *Chairman*

PROFESSORS
FILANO
MONTEMURO
SEYBOLD
VERNO
WEISS

INSTRUCTOR
HOEY

ASSOCIATE PROFESSORS
BELL
BRANTON
COHOES
FRIDSHAL
MANDELBAUM
MANNING
MILLIMAN
MOSER

ASSISTANT PROFESSORS
AHLBORN
EGAN (PART-TIME)
FASNACHT
HODGSON
PAILLET
STANLEY
WIENER
WIRTH

The concentration in mathematics begins with a basic core program including analytic geometry, calculus, linear algebra, and differential equations. This is followed by a required sequence of courses covering the major areas of modern mathematics. Additional specialization in specific branches of mathematics is possible through available electives.

BACHELOR OF ARTS

Concentration: *Mathematics*

The B.A. program in mathematics enables each student to receive the basic preparation required for the career of his choice. Among these are college and

university teaching, research and other service in government and industry, and computer programming. In all cases each student receives a sound preparation for graduate study in the field of mathematics. Candidates must satisfactorily complete a minimum of 128 semester hours distributed among four areas as follows:

I GENERAL REQUIREMENTS - - - - - - 62 SEMESTER HOURS

(See opening pages, Programs of Study — locate by leafing to black bar on margin.)

The required 6 semester hours of foreign language through the intermediate level must be met in French, German, or Russian.

II SCIENCE CORE REQUIREMENTS - - - - 12 SEMESTER HOURS

Physics 101-102 Physics I-II (credited to General Requirements)
Physics Elective 4 semester hours
Laboratory Science Elective 8 semester Hours

III MATHEMATICS CONCENTRATION REQUIREMENTS - 36 SEMESTER HOURS

Mat 106 Foundations of Mathematics (credited to General Requirements)
Mat 141 Analytic Geometry and Calculus I
Mat 142 Analytic Geometry and Calculus II
Mat 211 Linear Algebra
Mat 241 Analytic Geometry and Calculus III
Mat 242 Analytic Geometry and Calculus IV
Mat 411 Modern Algebra I
Mat 412 Modern Algebra II
Mat 441 Advanced Calculus I
Mat 442 Advanced Calculus II

A minimum of an additional 9 semester hours in mathematics must be chosen from available electives.

IV ELECTIVES - - - - - - - - - 18 SEMESTER HOURS

A typical sequence of courses may be obtained from the Department of Mathematics.

COMPUTER SCIENCE OPTION

By making appropriate use of his elective hours, a student with a concentration in mathematics in the Bachelor of Arts program may earn a sub-concentration in computer science. Such a student takes the following 21-semester-hour program:

CSc 101 Computer Programming
CSc 201 Computer Organization and Programming
CSc 202 Algorithmic Languages and Compilers

An additional 12 semester hours selected from the following:

CSc 311 Logic and Switching Theory
CSc 321 Information Processing
CSc 331 Computational Linguistics
CSc 461 Monte Carlo Methods and Simulations
Mat 321 Combinatorics and Graph Theory
Mat 425 Numerical Analysis
Mat 427 Introduction to Optimization Techniques

B.S. IN EDUCATION

Concentration: *Mathematics*

A student may qualify for the Pennsylvania Provisional Certificate in mathematics by completing a minimum field requirement of 36 semester hours as indicated below.

Degree candidates must satisfactorily complete a minimum of 128 semester hours distributed among four areas as follows:

I GENERAL REQUIREMENTS - - - - - - 56 SEMESTER HOURS

(See opening pages, Programs of Study — locate by leafing to black bar on margin.)

II PROFESSIONAL EDUCATION REQUIREMENTS - - 28 SEMESTER HOURS

(See School of Education — locate by leafing to black bar on margin.)

III SPECIALIZED PREPARATION - - - - - - 36 SEMESTER HOURS

Mat 106 Foundations of Mathematics (credited to General Requirements)
Mat 141 Analytic Geometry and Calculus I
Mat 142 Analytic Geometry and Calculus II
Mat 211 Linear Algebra
Mat 231 Concepts of Euclidean Geometry
Mat 241 Analytic Geometry and Calculus III
Mat 242 Analytic Geometry and Calculus IV
Mat 350 Teaching Mathematics in Secondary Schools (credited to Professional Education)
Mat 411 Modern Algebra I
Mat 421 Mathematical Statistics I
Mat 422 Mathematical Statistics II
Mat 441 Advanced Calculus I

A minimum of an additional 6 semester hours in mathematics must be chosen from available electives.

IV ELECTIVES - - - - - - - - - - 8 SEMESTER HOURS

A typical sequence of courses may be obtained from the Department of Mathematics.

COMPUTER SCIENCE OPTION

By making appropriate use of his elective hours, a student with a concentration in mathematics in the Bachelor of Science in Education program may earn a sub-concentration in computer science. Such a student takes the following 12-semester-hour program.

CSc 101 Computer Programming
CSc 201 Computer Organization and Programming
CSc 202 Algorithmic Languages and Compilers
CSc 350 Computers in Education

OFFERINGS IN MATHEMATICS

Mat 101 Introduction to College Mathematics I
Mat 102 Introduction to College Mathematics II
Mat 105 College Algebra and Trigonometry
Mat 106 Foundations of Mathematics
Mat 107 Finite Mathematics for the Management Sciences I
Mat 108 Finite Mathematics for the Management Sciences II
Mat 121 Statistics
Mat 141 Analytic Geometry and Calculus I
Mat 142 Analytic Geometry and Calculus II
Mat 211 Linear Algebra
Mat 231 Concepts of Euclidean Geometry
Mat 241 Analytic Geometry and Calculus III
Mat 242 Analytic Geometry and Calculus IV
Mat 311 Algebra for Elementary Teachers
Mat 321 Combinatorics and Graph Theory
Mat 331 Geometry for Elementary Teachers
Mat 343 Differential Equations
Mat 350 Teaching Mathematics in Secondary Schools
Mat 351 Teaching Mathematics in Elementary Schools
Mat 401 History of Mathematics
Mat 405 Special Topics in Mathematics
Mat 411 Modern Algebra I
Mat 412 Modern Algebra II
Mat 414 Theory of Numbers
Mat 421 Mathematical Statistics I
Mat 422 Mathematics Statistics II
Mat 425 Numerical Analysis
Mat 427 Introduction to Optimization Techniques
Mat 431 Topics in Geometry
Mat 432 Topology
Mat 433 Differential Geometry
Mat 441 Advanced Calculus I
Mat 442 Advanced Calculus II
Mat 445 Complex Variables
Mat 490 Seminar in Mathematics

COMPUTER SCIENCE

CSc 101 Computer Programming
CSc 201 Computer Organization and Programming
CSc 202 Algorithmic Languages and Compilers
CSc 305 Business Data Processing
CSc 311 Logic and Switching Theory
CSc 321 Information Processing
CSc 331 Computational Linguistics
CSc 350 Computers in Education
CSc 461 Monte Carlo Methods and Simulation

DEPARTMENT OF PHYSICS

DR. RICKERT, *Chairman*

PROFESSOR
RICKERT

ASSOCIATE PROFESSORS
CASCIATO
HAWKES
KAPLAN
REED
SHOAF
WIDICK

ASSISTANT PROFESSORS
HELKER (PART-TIME)
SHIVERS (PART-TIME)
SKELTON
SMITH

INSTRUCTOR
PLEMMONS (PART-TIME)

The concentration in physics begins with a look at the broad discipline. This is followed by a sequence including an introduction to modern physics, classical mechanics, and electricity and magnetism. Advanced courses permit students to develop a thorough understanding of the field. The calculus is a necessary mathematical tool for the study of physics at all levels.

BACHELOR OF ARTS

Concentration: *Physics*

The B.A. program in physics enables the student to receive the basic preparation required for a variety of careers. Among these are college and university teaching and research and related service in industry and government. In all cases, the student receives a sound preparation for graduate study in physics. Capable graduates of this program are normally eligible for fellowships and assistantships when they enter graduate school. Candidates must satisfactorily complete a minimum of 128 semester hours distributed among four areas as follows:

I GENERAL REQUIREMENTS - - - - - - 62 SEMESTER HOURS

(See opening pages, Programs of Study — locate by leafing to black bar on margin.)

The required 6 semester hours of foreign language through the intermediate level must be met in French, German, or Russian.

11 SCIENCE CORE REQUIREMENTS - - - - 20 SEMESTER HOURS

Mathematics 9 semester hours (through Mat 343)
Chemistry 8 semester hours
Astromomy or Geology 3 semester hours

III Physics Concentration Requirements - - 40 Semester Hours

Mat 141-142 Analytic Geometry and Calculus I-II
(141 credited to General Requirements)
Biology — a two semester laboratory sequence
(credited to General Requirements)
Phy 101-102 Physics I-II
Phy 212 Mechanics
Phy 233 Introduction to Modern Physics
Phy 251-252 Intermediate Physics Laboratory I-II
Phy 421 Electricity and Magnetism I
Phy 444 Physics Seminar
Phy 451 Advanced Physics Laboratory I

A minimum of 19 additional semester hours in physics must be chosen from available electives.

IV Electives - - - - - - - - - 6 Semester Hours

A typical sequence of courses may be obtained from the Department of Physics.

B.S. IN EDUCATION

Concentration: *Physics*

A student may qualify for the Pennsylvania Provisional Certificate in physics by completing a minimum field requirement of 40 semester hours as indicated below. Degree candidates must satisfactorily complete a minimum of 128 semester hours distributed among four areas as follows:

I General Requirements - - - - - - 56 Semester Hours

(See opening pages, Programs of Study — locate by leafing to black bar on margin.)

II Professional Education Requirements - - 28 Semester Hours

(See School of Education — locate by leafing to black bar on margin.)

III Specialized Preparation - - - - - - 40 Semester Hours

Mat 141 Analytic Geometry and Calculus I
(credited to General Requirements)
Mat 142-241-242 Analytic Geometry and Calculus II-III-IV
Che 103-104 General Chemistry I-II
(credited to General Requirements)
Phy 101-102 Physics I-II
Phy 212 Mechanics
Phy 233 Introduction to Modern Physics
Phy 251-252 Intermediate Physics Laboratory I-II
Phy 421 Electricity and Magnetism I
Phy 444 Physics Seminar
Sci 350 Teaching Science in Secondary Schools
(credited to Professional Education)
Phy 451 Advanced Physics Laboratory I

A minimum of 10 additional semester hours in physics must be chosen from available electives.

IV Electives - - - - - - - - - 4 Semester Hours

A typical sequence of courses may be obtained from the Department of Physics.

OFFERINGS IN PHYSICS

Phy 100 Introduction to Physics
Phy 101 Physics I
Phy 102 Physics II
Phy 103 General Physics I
Phy 104 General Physics II
Phy 212 Mechanics
Phy 233 Introduction to Modern Physics
Phy 251 Intermediate Physics Laboratory I
Phy 252 Intermediate Physics Laboratory II
Phy 413 Analytical Dynamics
Phy 414 Heat and Thermodynamics
Phy 421 Electricity and Magnetism I
Phy 422 Optics
Phy 423 Electronics
Phy 424 Electricity and Magnetism II
Phy 432 Introduction to Nuclear Physics
Phy 440 Introduction to Research
Phy 444 Seminar
Phy 451 Advanced Physics Laboratory I
Phy 452 Advanced Physics Laboratory II

COMPREHENSIVE SCIENCE

Dr. Greenberg, *Coordinator*

B. S. IN EDUCATION

Concentration: *Comprehensive Science*

A student may qualify for the Pennsylvania Provisional Certificate in Comprehensive Science by completing a minimum field requirement of 44 semester hours as indicated below. Degree candidates must satisfactorily complete a minimum of 128 semester hours distributed among three areas as follows:

I General Requirements - - - - - 56 Semester Hours

(See opening pages, Programs of Study — locate by leafing to black bar on margin.)

II Professional Education Requirements - - 28 Semester Hours

(See School of Education — locate by leafing to black bar on margin.)

III Specialized Preparation - - - - - 44 Semester Hours

Bio 111-112 Botany I-II
(or)
Bio 141-142 Zoology I-II
(or)
One semester of botany and one semester of zoology
(credited to General Requirements)
Che 103-104 General Chemistry I-II
Phy 101-102 Physics I-II
ESS 111 General Astronomy
ESS 201 Physical Geology
Sci 350 Teaching Science in Secondary Schools
(credited to Professional Education)
Mat 105 College Algebra and Trigonometry
(credited to General Requirements)

Twenty semester hours of electives must be chosen in consultation with the Coordinator. Students are advised to elect courses from biology, chemistry, earth and space science, or physics.

A typical sequence of courses may be obtained from the Coordinator.

EARTH AND SPACE SCIENCE

Dr. Greenberg, *Coordinator*

B.S. IN EDUCATION

Concentration: *Earth and Space Science*

A student may qualify for the Pennsylvania Provisional Certificate in Earth and Space Science by completing a minimum field requirement of 44 semester hours as indicated below. Degree candidates must satisfactorily complete a minimum of 128 semester hours distributed among three areas as follows:

I General Requirements - - - - - 56 Semester Hours

(See opening pages, Programs of Study — locate by leafing to black bar on margin.)

II Professional Education Requirements - - 28 Semester Hours

(See School of Education — locate by leafing to black bar on margin.)

III SPECIALIZED PREPARATION - - - - - - 44 SEMESTER HOURS

Che 103-104 General Chemistry I-II
(credited to General Requirements)
Phy 101-102 Physics I-II
Sci 350 Teaching Science in Secondary Schools
(credited to Professional Education)
Mat 141 Analytic Geometry and Calculus I
(credited to General Requirements)
ESS 201 Physical Geology
ESS 211 Historical Geology
ESS 350-351 Astronomy I-II
ESS 230 Introduction to Oceanography
ESS 240 Introduction to Meteorology

In consultation with the Coordinator, a student elects each of the following:

a. four semester hours in biology

b. two of the following courses:
ESS 301 Mineralogy and Petrology
ESS 311 Geochemistry
ESS 415 Introduction to Seismology
ESS 465 Observatory Principles
ESS 475 Introduction to the Planetarium
Geo 205 Geomorphology
Geo 302 Climatology

c. four more semester hours from mathematics, chemistry, biology, physics, geography, or earth and space science.

A typical sequence of courses may be obtained from the Coordinator.

OFFERINGS IN EARTH AND SPACE SCIENCE

ESS 101 Earth Science
ESS 111 General Astronomy
ESS 201 Physical Geology
ESS 211 Historical Geology
ESS 230 Introduction to Oceanography
ESS 240 Introduction to Meteorology
ESS 301 Mineralogy and Petrology
ESS 311 Geochemistry
ESS 350 Astronomy I
ESS 351 Astronomy II
ESS 415 Introduction to Seismology
ESS 465 Observatory Principles
ESS 475 Introduction to the Planetarium

COOPERATIVE DEGREE PROGRAMS FOR DENTAL HYGIENISTS AND PUBLIC SCHOOL NURSES

OFFERED IN THE DIVISION OF SCIENCES AND MATHEMATICS

West Chester State College offers two special curricula, cooperative in nature, which enable dental hygienists and public school nurses to obtain the degree of Bachelor of Science in Education.

DEGREE CURRICULUM FOR DENTAL HYGIENISTS

MRS. SCHOEL, *Coordinator*

The degree of Bachelor of Science in Education will be conferred upon dental hygienists meeting the following requirements:

1. The possession of a valid license to practice dental hygiene in the Commonwealth of Pennsylvania, issued by the State Dental Council and Examining Board and by the Department of Public Instruction. The requirement for admission to the Dental Hygiene curriculum is the satisfactory completion of an approved dental hygienist course of instruction of two years' duration. Each year must be composed of not less than 32 weeks, and each week must include not less than thirty hours of instruction. The requirement may also be met by equivalent instruction, and graduation, from a dental hygiene school approved by the State Council and Examining Board.

2. In addition, the satisfactory completion of 64 semester hours distributed as follows:

I GENERAL REQUIREMENTS - - - - - 44 SEMESTER HOURS

Eng	101	English Composition I	Geo	202	Geography of U.S. and Canada
Eng	102	English Composition II	His	101	History of Civilization I
Sph	101	Fundamentals of Speaking	His	102	History of Civilization II
Lit	121	General Literature I	PSc	231	American Government
Lit	122	General Literature II	Eco	231	Principles of Economics
Art	101	Fine Arts (Art)	His	211	History of the U.S. and Pennsylvania I
Mus	121	Fine Arts (Music)	Soc	231	Introduction to Sociology
Geo	101	World Geography			

II PROFESSIONAL EDUCATION - - - - - 11 SEMESTER HOURS

EdF	100	School and Society	EdM	300	Audio-Visual Education
Psy	100	Introduction to Psychology	EdP	250	Psychology of Learning and Development

III Electives - - - - - - - - - 9 Semester Hours

Electives may be chosen, with the approval of the Dean of Undergraduate Studies, from any academic field or curriculum offered at the College, for a total of not less than 9 credits. In either the General Requirements or Professional Education categories listed above, credit will be given for equivalent courses pursued in the two-year dental hygiene curriculum. In such instances, students must increase their electives by the number of semester hours so credited. In those cases in which dental hygienists have had less than two years of specialized training, the credit given will be proportional. To make up the deficiency, additional General Requirement courses in the College will be necessary.

DEGREE PROGRAM FOR PUBLIC SCHOOL NURSING

Mrs. Schoel, *Coordinator*

ASSISTANT PROFESSORS
CELLA (PART-TIME)
KLINE (PART-TIME)
SCHOEL

INSTRUCTOR
FEIN (PART-TIME)

The degree of Bachelor of Science in Education will be conferred upon registered nurses who meet the following requirements: The satisfactory completion of a two-year associate degree program or a three-year diploma program in an approved school of nursing, registration by the State Board of Examiners for the Registration of Nurses in Pennsylvania, and sixty semester hours of credit distributed as shown below.

I General Requirements - - - - - 26 Semester Hours

Eng 102 English Composition II
Sph 101 Fundamentals of Speaking
Lit 121 General Literature I
or
Lit 122 General Literature II
His 101 History of Civilization I
or
His 102 History of Civilization II
His 211 History of U.S. and Pennsylvania I
PSc 231 American Government
Soc 231 Introduction to Sociology
Bio 100 Basic Biological Science
Psy 100 Introduction to Psychology

II Professional Education - - - - - 12 Semester Hours

EdF 100 School and Society
EdP 250 Psychology of Learning and Development
EdP 251 Human Development: Childhood
(or)
Psy 352 Child and Adolescent Psychology
EdC 150 Introduction to Guidance and Counseling

III Courses Related to Public School Nursing - 17 Semester Hours

PSN 300	Public School Nursing	PSN 306	Prevention and Control of Communicable Diseases
PSN 302	Public Health Nursing I		
PSN 303	Public Health Nursing II		
PSN 304	Foundations of Nutrition	PSN 370	Mental Hygiene

IV Electives - - - - - - - - - 5 Semester Hours

Choose any two of the following.

PSN 320	Problems in School Nursing	Mus 121	Fine Arts (Music)
		Art 101	Fine Arts (Art)
Phi 280	Introduction to Philosophy	Mat 101	Introduction to College Mathematics I

Nurses with less than a three-year nurse's training preparation will be required to pursue additional courses to meet the requirements for the degree.

Dental hygienists and registered nurses who desire to enroll in the above curricula may obtain application blanks and information from the Director of Admissions.

DIVISION OF SOCIAL SCIENCES

Byron Y. Fleck, *Director*

Following Alexander Pope's injunction that "The proper study of mankind is man," the Division of Social Sciences accepts the responsibility for translating appropriate social science substance into meaningful and enriching learning experiences.

BACHELOR OF ARTS

Concentrations in

Economics	Psychology
Geography	Sociology-Anthropology
History	Social Service and Personnel Work
Political Science	

BACHELOR OF SCIENCE IN BUSINESS ADMINISTRATION

BACHELOR OF SCIENCE IN EDUCATION

Concentrations in

Geography	History—World Cultures
History—American	Comprehensive Social Studies

DEPARTMENT OF ECONOMICS AND BUSINESS

DR. THORSON, *Chairman*

PROFESSORS
SCHOOLER
THORSON

ASSOCIATE PROFESSOR
SYLVESTER

The Department of Economics and Business offers two major specializations: the program in economics leading to a Bachelor of Arts degree and the program in business administration leading to a Bachelor of Science degree. The B.A. in economics is designed for a broad understanding of the operation of the economic system and the role played by business, labor, and government. Careers lead to government, teaching, many areas of business, and to the graduate work necessary to become a professional economist. The B.S. in Business Administration is designed for students preparing for positions in business and industry. Students majoring in business administration elect one of the following areas of concentration: accounting, management, or economics.

BACHELOR OF ARTS

Concentration: *Economics*

Candidates must satisfactorily complete a minimum of 128 semester hours, distributed among four areas as follows:

I GENERAL REQUIREMENTS - - - - - 62 SEMESTER HOURS

(See opening pages, Programs of Study — locate by leafing to black bar on margin.)

II SOCIAL SCIENCE CORE REQUIREMENTS - - - 18 SEMESTER HOURS

His 211 History of U.S. and Pa. I
His 212 History of U.S. and Pa. II
Ant 231 Introduction to Anthropology
Eco 231 Principles of Economics I
Soc 231 Introduction to Sociology
Eco 400 Senior Seminar in Economics

III ECONOMICS CONCENTRATION REQUIREMENTS - 24-30 SEMESTER HOURS

Eco 232 Principles of Economics II
Eco 339 Economic Statistics
Eco 340 Intermediate Economic Theory

—and additional economics electives to complete 24—30 semester hours in economics beyond the 6 hours in Core.

IV ELECTIVES - - - - - - - - 18-24 SEMESTER HOURS

Economics majors are especially advised to elect supplementary courses from the following: CSc 201, Mat 121, His 315, Geo 203, and Geo 308.
A typical sequence of courses may be obtained from the Department of Economics and Business.

BACHELOR OF SCIENCE IN BUSINESS ADMINISTRATION

Candidates must satisfactorily complete a minimum of 128 semester hours distributed among four areas as follows:

I. GENERAL REQUIREMENTS - - - - - - 56 SEMESTER HOURS

1. SKILLS AND COMPETENCIES | 18 semester hours
   - a. English Composition 6
   - b. Speech 2
   - c. Foreign Language 6
   - d. Physical Education 2
   - e. Health 2

2. ARTS AND LETTERS | 12 semester hours
   - a. Literature 6
   - b. Art or Music 3
   - c. Philosophy 3

3. SOCIAL SCIENCES | 12 semester hours
   - a. History 6
   - b. Psychology 3
   - c. Political Science 3

4. SCIENCES | 14 semester hours
   - a. Science (with lab) 8
   - b. Mathematics 3
   - c. Computer Science 3

II CORE REQUIREMENTS - - - - - - - 36 SEMESTER HOURS

Economics Eco 231, 232	6	Finance Eco 335, Eco 344	6
Mathematics and Statistics Mat 108, 121, Eco 339	9	Business Organization and Management BAd 301	3
Business Law BLa 201	2	Principles of Marketing BAd 321	3
Accounting BAc 201, 202	6		

III AREA OF CONCENTRATION - - - - - - 24 SEMESTER HOURS

Business administration majors select a concentration area of 24 semester hours, including senior seminar, from one of the following areas:

- a. Accounting
- b. Management
- c. Economics

IV Electives - - - - - - - - - 12 Semester Hours

Business administration majors are especially advised to elect supplementary courses from the following: CSc 201, CSc 305, Geo 203, Geo 308, and His 315.

A typical sequence of courses may be obtained from the Department of Economics and Business.

OFFERINGS IN ECONOMICS AND BUSINESS

1. ECONOMICS

Eco 231 Principles of Economics I
Eco 232 Principles of Economics II
Eco 333 Consumer Economics
Eco 334 Industrial Relations
Eco 335 Money and Credit
Eco 336 Business and Government
Eco 337 Economic Growth and Development
Eco 338 International Economics
Eco 339 Economic Statistics
Eco 340 Intermediate Economic Theory
Eco 341 Public Finance
Eco 342 Business Cycles
Eco 343 Comparative Economics since 1930
Eco 344 Corporation Finance
Eco 345 History of Economic Thought
Eco 400 Senior Seminar
Eco 401 Quantitative Analysis
Eco 410 Independent Studies in Economics

2. ACCOUNTING

BAc 201 Principles of Accounting I
BAc 202 Principles of Accounting II
BAc 301 Intermediate Accounting
BAc 302 Managerial Accounting
BAc 303 Cost Accounting
BAc 304 Advanced Accounting
BAc 400 Senior Seminar in Accounting
BAc 401 Auditing I
BAc 402 Auditing II
BAc 403 Federal Taxation I
BAc 404 Federal Taxation II
BAc 410 Independent Studies in Accounting

3. MANAGEMENT

BAd 301 Business Organization and Management
BAd 302 Personnel Management
BAd 321 Principles of Marketing
BAd 322 Advertising and Sales Promotion
BAd 400 Senior Seminar in Management
BAd 401 Industrial Organization and Management
BAd 402 Organization Behavior and Management
BAd 405 Business Policy
BAd 410 Independent Studies in Management

4. BUSINESS LAW

BLa 201 Business Law I
BLa 202 Business Law II

5. COURSES SUPPLEMENTING BUSINESS ADMINISTRATION

CSc 101 Introduction to Computer Programming
CSc 201 Computer Organization and Programming
CSc 305 Business Data Processing
Eng 230 Business Communication
Geo 203 Economic Geography
Geo 308 Trade and Transportation
His 315 Economic History of the United States
Mat 107 Finite Mathematics for the Management Sciences I
Mat 108 Finite Mathematics for the Management Sciences II

DEPARTMENT OF GEOGRAPHY

DR. KEINARD, *Chairman*

PROFESSORS	ASSOCIATE PROFESSORS	ASSISTANT PROFESSOR
KEINARD	BIELSKI	MORROW
LANGDON	GRASSEL	
	HAWTHORNE	INSTRUCTOR
	RAMPON	DOUGHERTY (PART-TIME)
	THOMPSON	

The basic objectives of study in geography at West Chester are threefold: (1) to serve the general education of all students, (2) to provide the specialized training needed for teaching geography, and (3) to supply the particular needs of students in the arts and sciences. The Department aims at helping students gain a full comprehension of the broad scope of man's physical environment and its relationships to cultural situations and problems. As a discipline, geography provides a way of organizing knowledge from various disciplines, and enables students to examine the integrated whole of a people in reference to their habitat and interspacial relationships.

BACHELOR OF ARTS

Concentration: *Geography*

Candidates must satisfactorily complete a minimum of 128 semester hours, distributed among four areas as follows:

I GENERAL REQUIREMENTS - - - - - - 62 SEMESTER HOURS

(See opening pages, Programs of Study — locate by leafing to black bar on margin.)

II SOCIAL SCIENCE CORE REQUIREMENTS - - - 18 SEMESTER HOURS

His 211	History of U.S. and Pa. I	Eco 231	Principles of Economics
His 212	History of U.S. and Pa. II	Soc 231	Introduction to Sociology
Ant 231	Intro. to Anthropology	Geo 400	Senior Seminar in Geography

III GEOGRAPHY CONCENTRATION REQUIREMENTS - - 33 SEMESTER HOURS

Required — 21 hours

Group 1. Earth Sciences (6 hrs.)
Group 2. Economic Studies (3 hrs.)
Group 3. Regional Studies (3 hrs.)
Group 4. Cultural and Political Studies (3 hrs.)
Group 5. Techniques and Special Studies (6 hrs.)

Geography Electives
12 hours

IV ELECTIVES - - - - - - - - - 15 SEMESTER HOURS

Geography majors are advised to elect supplementary courses from the following: Ant 333, PSc 335, Soc 332, and Soc 336.

A typical sequence of courses may be obtained from the Department of Geography.

B.S. IN EDUCATION

Concentration: *Geography*

A student may qualify for the Pennsylvania Provisional Geography Certificate by completing a minimum field requirement of 30 semester hours in geography. Degree candidates must satisfactorily complete a minimum of 128 semester hours distributed among four areas as follows:

I GENERAL REQUIREMENTS - - - - - 56 SEMESTER HOURS

(See opening pages, Programs of Study — locate by leafing to black bar on margin.)

II PROFESSIONAL EDUCATION REQUIREMENTS - - 28 SEMESTER HOURS

(See School of Education — locate by leafing to black bar on margin.)

III SPECIALIZED PREPARATION - - - - - 30 SEMESTER HOURS

Required — 18 semester hours

Geo 202 Geography of the United States and Canada
Geo 203 Economic Geography
Geo 205 Geomorphology
Gea 206 Meteorology: An Introduction to Climate
Geo 211 Map Appreciation and Interpretation
Geo 300 Physical Geography
Geo 311 Teaching Geography in Secondary Schools
(credited to Professional Education)

Electives
12 semester hours

IV ELECTIVES - - - - - - - - - 14 SEMESTER HOURS

A typical sequence of courses may be obtained from the Department of Geography.

OFFERINGS IN GEOGRAPHY

1. *EARTH SCIENCES*

Geo 205 Geomorphology
Geo 206 Meteorology: An Introduction to Climate
Geo 300 Physical Geography
Geo 301 Introduction to Physical Geology
Geo 302 Climatology

2. *ECONOMIC STUDIES*

Geo 201 Conservation of Natural Resources
Geo 203 Economic Geography
Geo 308 Trade and Transportation
Geo 312 The Geography of Modern Industrial and Commercial Activity
Geo 414 Urban and Regional Planning

3. *REGIONAL STUDIES*

Geo 202 Geography of U.S. and Canada
Geo 204 Geography of Pennsylvania
Geo 207 Geography of Europe
Geo 208 Geography of Latin America
Geo 304 Geography of Asia
Geo 305 Geography of the Far East
Geo 306 Geography of Africa
Geo 307 Geography of the U.S.S.R.
Geo 314 Geography of the U.S. and Pennsylvania
Geo 412 Geography of Australia and Associated Islands

4. *CULTURAL AND POLITICAL STUDIES*

Geo 200 The Geography of World Cultures
Geo 209 The U.S. in its Global Relationships
Geo 210 Geographic Influences in American History
Geo 309 World Problems in Geography
Geo 313 Geography of Population
Geo 316 Political and Military Geography in the U.S. in the 20th Century

5. *TECHNIQUES AND SPECIAL STUDIES*

Geo 211 Map Appreciation and Interpretation
Geo 303 Cartography
Geo 310 Geography Field Study Methods
Geo 311 Teaching Geography in Secondary Schools
Geo 315 Aerial Photographic Interpretation
Geo 400 Senior Seminar in Geography
Geo 410 Independent Study in Geography
Geo 415 Geography Area Field Courses I, II, and III
Geo 416 Geography Seminar

6. *GENERAL*

Geo 101 World Geography

DEPARTMENT OF HISTORY

DR. CARLSON, *Chairman*

PROFESSORS	ASSOCIATE PROFESSORS	ASSISTANT PROFESSORS
CARLSON	CROWLEY	AIZUPITIS
EVERETT	FOSTER	BRADSHAW
FLECK	FOX	BURGWIN
HARDING	JOHNSON	IVINS
HOUPT	KAY	O'GRADY
SCHALCK	MORGAN	SESSA
SWAN	RILEY	
TURNER	SHAFFER	INSTRUCTORS
	SHUR	CARTER
	SOLDON	DOYLE
	STUART	
	WEBSTER	
	YOUNG	

The student of history seeks to recreate the past (or, more precisely, as much of it as is possible) not only rationally to explain and understand the past for its own sake, but also to identify himself and this age with earlier times. He is concerned with the origins and development of and relationships between past men and events and, from the multiplicity of credible and sometimes conflicting evidence, renders judgments on causation and consequences. He seeks to achieve a sense of the past. Among the careers open to history majors are the law, government service, teaching, research, journalism, and business. Indeed, a strong preparation in history can lead to possibilities in virtually every field of endeavor.

BACHELOR OF ARTS

Concentration: *History*

Candidates must satisfactorily complete a minimum of 128 semester hours, distributed among four areas as follows:

I GENERAL REQUIREMENTS - - - - - - 62 SEMESTER HOURS
(See opening pages, Programs of Study — locate by leafing to black bar on margin.)

II SOCIAL SCIENCE CORE REQUIREMENTS - - - 24 SEMESTER HOURS

His 111 Western Civilization to 1300 A.D.
His 112 Western Civilization, 1300-1815
(111, 112 credited to General Requirements)
His 113 Western Civilization, 1815-Present
His 114 The Non-Western World
His 211 History of U.S. and Pa. I
His 212 History of U.S. and Pa. II
Ant 231 Introduction to Anthropology
Eco 231 Principles of Economics
Soc 231 Introduction to Sociology
His 400 Senior Seminar in History

III HISTORY CONCENTRATION REQUIREMENTS - - 18 SEMESTER HOURS

Group 1 American History (6 hrs.)
Group 2 European History (3 hrs.)
Group 3 World and Regional History (3 hrs.)
History Electives (6 hrs.)

IV ELECTIVES - - - - - - - - - 24 SEMESTER HOURS

History majors are especially advised to elect supplementary courses from the following: Ant 333, Geo 210, Geo 309, PSc 332, PSc 335, and Soc 335.
A typical sequence of courses may be obtained from the Department of History.

B.S. IN EDUCATION DEGREES

A. Concentration: *Comprehensive Social Studies*

A student may qualify for the Pennsylvania Provisional Comprehensive Social Studies Certificate by completing a minimum of 24 semester hours in history, and a minimum of 24 semester hours in the other social sciences. Degree candidates must satisfactorily complete a minimum of 128 semester hours distributed among four areas as follows:

I GENERAL REQUIREMENTS - - - - - 56 SEMESTER HOURS

(See opening pages, Programs of Study — locate by leafing to black bar on margin.)

II PROFESSIONAL EDUCATION REQUIREMENTS - - 28 SEMESTER HOURS

(See School of Education — locate by leafing to black bar on margin.)

III SPECIALIZED PREPARATION - - - - - 36 SEMESTER HOURS

Required

His 101 History of Civilization I
His 102 History of Civilization II
(101-102 credited to General Requirements)
His 211 History of U.S. and Pa. I
His 212 History of U.S. and Pa. II
PSc 231 American Government
(credited to General Requirements)
Eco 231 Principles of Economics
Soc 231 Introduction to Sociology
Ant 231 Introduction to Anthropology
SSc 331 Teaching Social Studies in Secondary School
(credited to Professional Education)
His 400 Senior Seminar in History

Restricted Electives

History: 9 semester hours distributed equally in Groups 1, 2, and 3.
Social Sciences: 9 semester hours under advisement

IV ELECTIVES - - - - - - - - - 8 SEMESTER HOURS

A typical sequence of courses may be obtained from the Department of History.

B. Concentration: *History (American History or World Cultures)*

A student may qualify for the Pennsylvania Provisional Certificate in history by completing a minimum of 36 semester hours in history and a minimum of 12 semester hours in the other social sciences. Degree candidates must satisfactorily complete a minimum of 128 semester hours distributed among four areas as follows:

I GENERAL REQUIREMENTS - - - - - - 56 SEMESTER HOURS

(See opening pages, Programs of Study — locate by leafing to block bar on margin.)

II PROFESSIONAL EDUCATION REQUIREMENTS - - 28 SEMESTER HOURS

(See School of Education — locate by leafing to block bar on margin.)

III SPECIALIZED PREPARATION - - - - - - 36 SEMESTER HOURS

Required

His 111 Western Civilization to 1300 A.D.
His 112 Western Civilization, 1300-1815
(111-112 credited to General Requirements)
His 113 Western Civilization, 1815-Present
His 114 The Non-Western World
His 211 History of U.S. and Pa. I
His 212 History of U.S. and Pa. II
PSc 231 American Government
(credited to General Requirements)
Eco 231 Principles of Economics
SSc 331 Teaching Social Studies in Secondary Schools
(credited to Professional Education)
His 400 Senior Seminar in History

Restricted Electives

(History majors select a concentration area in American History *or* World Cultures.)

AMERICAN HISTORY CONCENTRATION

	Hours
His 313 History of Pennsylvania	3
History electives from Group 1	9
History electives from Groups 2 and 3	3
Elective: Social Sciences	3

WORLD CULTURES CONCENTRATION

	Hours
Ant 231 Introduction to Anthropology	3
History electives: Group 1	6
Group 2	3
Group 3	6

IV ELECTIVES - - - - - - - - - 8 SEMESTER HOURS

A typical sequence of courses may be obtained from the Department of History.

OFFERINGS IN HISTORY

1. AMERICAN HISTORY

His 211 History of U.S. and Pa. I
His 212 History of U.S. and Pa. II
His 313 History of Pennsylvania
His 314 Diplomatic History of U.S.
His 315 Economic History of U.S.
His 316 History of American Frontier
His 317 History of American Science and Technology
His 318 Constitutional History of U.S.
His 319 Social and Cultural History of U.S.
His 320 History of the South
His 339 History of the Negro American

2. EUROPEAN HISTORY

His 112 Western Civilization, 1300-1815
His 113 Western Civilization, 1815-Present
His 219 Medieval Europe
His 220 Renaissance and Reformation
His 331 History of England to 1688
His 332 History of England since 1688
His 340 Modern Germany
His 350 Russian History to 1917
His 351 Soviet Russia
His 360 Diplomatic History of Europe since 1815

3. WORLD AND REGIONAL HISTORY

His 101 History of Civilization I
His 102 History of Civilization II
His 111 Western Civilization to 1300 A.D.
His 114 The Non-Western World
His 218 Ancient World
His 322 History of South Asia
His 323 History of the Middle East
His 325 History of the 20th Century World
His 327 The British Empire-Commonwealth
His 328 History of Modern Africa
His 329 History of East Asia
His 333 History of Latin America to 1825
His 334 History of Latin America since 1825

DEPARTMENT OF POLITICAL SCIENCE

DR. HARDING, *Chairman*

PROFESSOR	ASSISTANT PROFESSOR	INSTRUCTOR
HARDING	BRADY	IACONO

ASSOCIATE PROFESSORS

BURNS
BURTON
ELDREDGE
SHEA

Political science systematically investigates the theory and practice of politics and levels of government — domestic, foreign, and international.

Depending on the area, emphasis may be on the philosophical study of the nature of government and politics, on the political behavior of individuals or groups, or on the role of political and governmental institutions. Careers are open to majors in research, teaching, administration, personnel work, public relations, journalism, and government at home and abroad. A B.A. program in political science is especially important for the pre-law student, or the student who desires to teach political science at the college level.

BACHELOR OF ARTS

Concentration: *Political Science*

Candidates must satisfactorily complete a minimum of 128 hours, distributed among four areas as follows:

I GENERAL REQUIREMENTS - - - - - - 62 SEMESTER HOURS

(See opening pages, Programs of Study — locate by leafing to black bar on margin.)

II SOCIAL SCIENCE CORE REQUIREMENTS - - - 18 SEMESTER HOURS

His 211	History of U.S. and Pa. I	Eco 231	Principles of Economics
His 212	History of U.S. and Pa. II	Soc 231	Introduction to Sociology
Ant 231	Introduction to Anthropology	PSc 400	Senior Seminar in Political Science

III POLITICAL SCIENCE CONCENTRATION REQUIREMENTS - 24-30 SEMESTER HOURS

PSc 201	Introduction to Political Science	—and additional political science electives to complete 24-30 semester hours in political science beyond the 3 hours in Core.
PSc 333	International Politics	
PSc 338	Introduction to Political Thought	
PSc 339	Elements of Public Administration	

IV ELECTIVES - - - - - - - - - 18-24 SEMESTER HOURS

Political science majors are especially advised to elect supplementary courses from the following: Eco 336, Eco 338, His 314, His 318, Mat 121, and Soc 336.

A typical sequence of courses may be obtained from the Department of Political Science.

OFFERINGS IN POLITICAL SCIENCE

PSc 201 Introduction to Political Science
PSc 231 American Government
PSc 331 State and Local Government
PSc 332 Comparative Government
PSc 333 International Politics
PSc 334 American Political Parties
PSc 335 American Political Ideas
PSc 336 Soviet Government and Politics
PSc 337 American Foreign Policy
PSc 338 Introduction to Political Thought
PSc 339 Elements of Public Administration
PSc 340 American Constitutional Law
PSc 341 International Law
PSc 342 Public Opinion and Propaganda
PSc 343 Municipal Government
PSc 400 Senior Seminar in Political Science
PSc 410 Independent Studies in Political Science

DEPARTMENT OF PSYCHOLOGY

DR. CLARK, *Chairman*

PROFESSORS	ASSOCIATE PROFESSORS	ASISTANT PROFESSORS
CLARK	FELDMAN	MORSE
GREGG	KLUGMAN	POTTIEGER
	NADEAU	SHINEHOUSE
	PORTER	

The psychologist endeavors to apply scientific processes in order to explain, predict, and in some cases control human behavior. A bachelor's degree in psychology should prepare the student to understand those variables, such as heredity, learning and the environment, which shape and change behavior. Careers are possible in clinics, guidance centers, industry, hospitals, schools, and government.

BACHELOR OF ARTS

Concentration: *Psychology*

Candidates must satisfactorily complete a minimum of 128 semester hours, distributed among four areas as follows:

I GENERAL REQUIREMENTS - - - - - 62 SEMESTER HOURS

(See opening pages, Programs of Study — locate by leafing to black bar on margin.)

II Social Science Core Requirements - - - 18 Semester Hours

His 211 History of U.S. and Pa. I
His 212 History of U.S. and Pa. II
Ant 231 Introduction to Anthropology
Eco 231 Principles of Economics
Soc 231 Introduction to Sociology
Psy 400 Senior Seminar in Psychology

III Psychology Concentration Requirements - 24-30 Semester Hous

Psy 354 Social Psychology
Psy 355 Experimental Psychology
Psy 356 The Study of Personality
Psy 375 Abnormal Psychology
— and additional psychology electives to complete 24-30 semester hours in psychology beyond the 3 hours in Core.

IV Electives - - - - - - - - - 18-24 Semester Hours

Psychology majors are especially advised to elect supplementary courses from the following: Ant 331, Bio 262, Mat 121, and Soc 338.

A typical sequence of courses may be obtained from the Department of Psychology.

OFFERINGS IN PSYCHOLOGY

Psy 100 Introduction to Psychology
Psy 241 Psychology of Exceptional Children
Psy 243 Psychology of the Mentally Retarded
Psy 352 Child and Adolescent Psychology
Psy 354 Social Psychology
Psy 355 Experimental Psychology
Psy 356 The Study of Personality
Psy 361 Applied Psychology
Psy 362 History of Psychology
Psy 363 Psychology of Learning
Psy 364 Physiological Psychology
Psy 370 Mental Hygiene
Psy 375 Abnormal Psychology
Psy 400 Senior Seminar in Psychology
Psy 410 Independent Studies in Psychology

DEPARTMENT OF SOCIOLOGY AND ANTHROPOLOGY

Mr. Bram, *Chairman*

PROFESSOR
SAMUELSON

ASSOCIATE PROFESSORS
BECKER
MORNING

ASSISTANT PROFESSORS
BRAM
COWEN
MURPHY
NOVICK (PART-TIME)

Man creates culture; culture creates man. It is to the interplay of these two that sociology and anthropology address themselves. The sciences of

human society study the structuring and functioning of groups in determining human behavior and interpreting social phenomena objectively. These disciplines aim to understand man: his biological and cultural development. Careers for the major are in teaching; local, state, and national governmental agencies; criminology and penology; social service and personnel work; public relations; psychiatric social work; children's agencies; juvenile and family courts, and many others.

BACHELOR OF ARTS DEGREES

A. Concentration: *Sociology-Anthropology*

Candidates must satisfactorily complete a minimum of 128 semester hours, distributed among four areas as follows:

I GENERAL REQUIREMENTS - - - - - - 62 SEMESTER HOURS
(See opening pages, Programs of Study — locate by leafing to black bar on margin.)

II SOCIAL SCIENCE CORE REQUIREMENTS - - - 18 SEMESTER HOURS

His 211 History of U.S. and Pa. I
His 212 History of U.S. and Pa. II
Ant 231 Introduction to Anthropology
Eco 231 Principles of Economics
Soc 231 Introduction to Sociology
Soc or Ant 400 Senior Seminar in Sociology or Anthropology

III SOCIOLOGY-ANTHROPOLOGY CONCENTRATION REQUIREMENTS - - - - - - - 24-30 SEMESTER HOURS

Soc 337 Sociological Theory
Soc 339 Social Stratification
Ant 331 Human Evolution
Ant 332 Social Organization
—and additional sociology and anthropology electives to complete 24-30 semester hours in sociology and anthropology beyond the 9 hours in Core.

IV ELECTIVES - - - - - - - - - - 18-24 SEMESTER HOURS

Sociology-anthropology majors are especially advised to elect supplementary courses from the following: Mat 121, Psy 354, Psy 356, and Psy 375.
A typical sequence of courses may be obtained from the Department of Sociology and Anthropology.

B. Concentration: *Social Service and Personnel Work*

Candidates for the B.A. degree in Social Service and Personnel Work must satisfactorily complete a minimum of 128 semester hours, distributed among four areas as follows:

I GENERAL REQUIREMENTS - - - - - - 62 SEMESTER HOURS
(See opening pages, Programs of Study — locate by leafing to black bar on margin.)

II Social Science Core Requirements - - - 18 Semester Hours

His 211 History of U.S. and Pa. I
His 212 History of U.S. and Pa. II
Ant 231 Introduction to Anthropology
Eco 231 Principles of Economics
Soc 231 Introduction to Sociology
Soc 400 or Psy 400 Senior Seminar in Sociology or Psychology

III Social Service and Personnel Work Concentration Requirements - - - - 36 Semester Hours

Eco 333 Consumer Economics
Eco 334 Industrial Relations
Soc 339 Social Stratification
Soc 340 Introduction to Social Work
Psy 354 Social Psychology
Psy 356 The Study of Personality
— and additional electives distributed equally from economics, sociology, and psychology to complete 36 hours beyond Core requirements.

IV Electives - - - - - - - - - 12 Semester Hours

Social service and personnel work majors are especially advised to elect supplementary courses from the following: Eco 336, PSc 331, PSc 339, Psy 370, Soc 332, and Soc 336.

A typical sequence of courses may be obtained from the Department of Sociology and Anthropology.

OFFERINGS IN SOCIOLOGY—ANTHROPOLOGY

ANTHROPOLOGY

Ant 231 Introduction to Anthropology
Ant 331 Human Evolution
Ant 332 Social Organization
Ant 333 Cultural Dynamics
Ant 334 World Ethnography
Ant 335 Personality and Culture
Ant 336 Social Anthropology
Ant 340 Introduction to Linguistics
Ant 380 Language and Culture
Ant 400 Senior Seminar in Anthropology
Ant 403 Primitive Art
Ant 410 Independent Studies

SOCIOLOGY

Soc 231 Introduction to Sociology
Soc 332 Contemporary Social Problems
Soc 333 The Family
Soc 334 Juvenile Delinquency
Soc 335 Racial and Cultural Minorities
Soc 336 Urban Sociology
Soc 337 Sociological Theory
Soc 338 Criminology
Soc 339 Social Stratification
Soc 340 Introduction to Social Work
Soc 341 Social Change
Soc 342 Community Analysis and Applied Social Change
Soc 343 Sociology of Small Groups
Soc 344 Sociology of Complex Organizations
Soc 400 Senior Seminar in Sociology
Soc 410 Independent Studies

INTERDISCIPLINARY PROGRAMS

The College of Arts and Sciences at West Chester also offers the Bachelor of Arts in three interdisciplinary programs: American Studies, Latin-American Studies, and Russian Studies.

The American Studies Program explores American art, economics, government, history, literature, music, philosophy, psychology, and sociology in interpreting American culture.

The Latin-American Studies Program is integrated and interdepartmental, involving economics, literature, foreign languages, geography, history, political science, sociology-anthropology, and education.

The Russian Studies Program is designed to give a solid background in Russian language, literature, history, government, economics, geography, education, art, and music.

AMERICAN STUDIES

Candidates for the B.A. degree with a concentration in American Studies must satisfactorily complete a minimum of 128 semester hours, distributed among four areas as follows:

I GENERAL REQUIREMENTS - - - - - - 62 SEMESTER HOURS

(See opening pages, Programs of Study — locate by leafing to black bar on margin.)

II REQUIRED CORE - - - - - - - - 30 SEMESTER HOURS

1. Introduction to American Studies Seminar	3
2. American Literature (Lit 223, Lit 224)	6
3. American History (His 211, His 212) (Art 408, Mus 322, Phi 374 or Phi 484)	6
4. Senior Seminars in American Studies	6
5. Three courses in Art, Music, Philosophy	9

III Specialization - - - - - - - - - 18 Semester Hours

1. Two courses in American History area 6
   (His 314, His 315, His 316, His 317, His 318, His 319, His 320, His 321, His 339)

2. Two courses in American Literature and Language area 6
   (Lit 340, Lit 342, Lit 343, Lit 344, Lit 348) Lit 351, Lit 352, Eng 319)

3. Two courses in Social Sciences 6
   (Ant 332, Eco 332, EdF 100, Geo 202, Geo 209, Geo 210, Geo 316, PSc 331, PSc 334, PSc 335, Psy 354, Soc 332)

IV Electives - - - - - - - - - - 18 Semester Hours

(From any of the above areas or general curricula.)

Note: Students may obtain more detailed information about the American Studies program from the Dean of the College of Arts and Sciences.

LATIN-AMERICAN STUDIES

Candidates for the B.A. degree with a concentration in Latin-American studies must satisfactorily complete a minimum of 128 semester hours, distributed among three areas as follows:

I General Requirements - - - - - - 62 Semester Hours

(See opening pages, Programs of Study — locate by leafing to black bar on margin.)

II Required Core For Specialization - - - - 42 Semester Hours

1. Spanish Language 6
   (6 hours beyond the intermediate level)
2. Spanish-American Literature 6
3. Latin American History 6
4. Latin American Government 3
5. Latin American Geography 3
6. Latin American Economics 3
7. Latin American Sociology-Anthropology 3
8. Latin American Education 3
9. Latin American Fine Arts (Art and Music) 3
10. Seminars 6

III Electives - - - - - - - - - 24 Semester Hours

Note: Spanish language majors interested in this program should consult with the Chairman of the Department of Foreign Languages. All students may obtain more detailed information about the Latin American Studies program from the office of the Dean of the College of Arts and Sciences.

RUSSIAN STUDIES

Candidates for the B.A. degree with a concentration in Russian Studies must satisfactorily complete a minimum of 128 semester hours, distributed among three areas as follows:

I General Requirements - - - - - 62 Semester Hours

(See opening pages, Programs of Study — locate by leafing to block bar on margin.)

II Required Core for Specialization - - - 45 Semester Hours

1.	Russian Language (6 hours beyond the intermediate level)	6
2.	Russian Literature	6
3.	Russian History	6
4.	Russian Government	6
5.	Russian Geography	3
6.	Russian Economics	3
7.	Russian Sociology-Anthropology	3
8.	Russian Education	3
9.	Russian Fine Arts (Art, Music)	3
10.	Seminars	6

III Electives - - - - - - - - - 21 Semester Hours

Note: Russian language majors interested in this program should consult with the Chairman of the Department of Foreign Languages. All students may obtain more detailed information about the Russian Studies program from the office of the Dean of the College of Arts and Sciences.

SCHOOL OF EDUCATION

Harold W. Benda, *Dean*
Michael F. Bannon, *Associate Dean for Graduate Studies*
John A. Lander, *Assistant to the Dean*

DEPARTMENT OF ELEMENTARY EDUCATION

Charlotte E. King, *Chairman*

PROFESSOR
KING

ASSOCIATE PROFESSORS
CHARRY
GOOD, CHARLOTTE
HAAS
HABECKER
HERRES
LABUDA
PETA
ROSS
SHUR

ASSISTANT PROFESSORS
CHERN
DUNLAP
GIBSON
HASSELQUIST
KULP
PETKOFSKY

INSTRUCTORS
MORGAN
SILVERMAN

DEPARTMENT OF SECONDARY EDUCATION AND PROFESSIONAL STUDIES

Walter N. Ridley, *Chairman*

PROFESSORS
BANNON
BENDA
CREW
LANDER
RIDLEY

ASSOCIATE PROFESSORS
BARTH
BUECHELE
FRANCELLA
GLEOCKLER
McCLURE
MISSISSYAN
PAGANELLI
PATTERSON
THOMAS

ASSISTANT PROFESSORS
CLEARY
McKENDRY (PART-TIME)
TREADWELL

GUIDANCE AND COUNSELING

Abe S. Kramer, *Coordinator*

PROFESSORS
HILL
KRAMER

ASSOCIATE PROFESSORS
CLARK
RAHN
RECKTENWALD
SWIREN

EDUCATIONAL MEDIA

Richard P. Weagley, *Coordinator*

PROFESSORS
McTAVISH
STRAYER
WEAGLEY

ASSOCIATE PROFESSOR
REDMOND

ASSISTANT PROFESSORS
SPIECKER
STEINMETZ

INSTRUCTOR
REIS

(continued on next page)

URBAN EDUCATION

F. William Leeds, *Coordinator*

ASSOCIATE PROFESSOR
LEEDS

SPECIAL EDUCATION

Howard Freeman *Coordinator*

ASSOCIATE PROFESSORS
FREEMAN
GREENBERG

LABORATORY SCHOOL

Gerald B. Cartright, *Principal*

ASSOCIATE PROFESSOR
CARTRIGHT

ASSISTANT PROFESSORS
GRAFTON
PRITCHARD

INSTRUCTORS
FINKEL
HASSON
MORGAN
REED
WILSON

STUDENT TEACHING PROGRAM

Mark M. Evans, *Director*

PROFESSOR
EVANS

ASSOCIATE PROFESSORS
BRICE
DEISCHER
GERMAN
GOOD, CHARLES
HOGGARD
HOLINGJAK
JACECKO
LEE
TALLEY

ASSISTANT PROFESSORS
HASSELQUIST
JONES
MORGANTHALL
WALTERS

[The School of Health and Physical Education and the School of Music assist the Student Teaching Program by providing faculty for supervision in their respective special skills.]

THE SCHOOL OF EDUCATION, working cooperatively with the total College community, assumes the responsibility for providing the prospective teacher with the technical knowledge and skills, supported by laboratory experiences, to be used in his profession; and with the social, ethical, and professional attitudes necessary for success in teaching.

DEPARTMENT OF ELEMENTARY EDUCATION

Charlotte E. King, *Chairman*

The elementary education curriculum is designed to provide a broad background of general education, an understanding of children, and the knowledge and skills needed to teach all aspects of the elementary school program. There is no major or minor field in this curriculum, but students must meet the State requirements for an area of interest (formerly described as *area of concentration*). Upon satisfactory completion of the requirements of this curriculum, the student will qualify for a Pennsylvania College Provisional Certificate. This certificate will be valid for teaching for three years in the kindergarten and grades one to six inclusive, and for grades seven and eight when they are not part of an approved junior high school or junior-senior high school in Pennsylvania.

B.S. IN EDUCATION DEGREE

Candidates for the B.S. in Education must complete a minimum of 128 semester hours, distributed among the following four areas:

I GENERAL REQUIREMENTS - - - - - - 56 SEMESTER HOURS
(See opening pages, Programs of Study — locate by leafing to black bar on margin.)

Note that the specific courses which meet General Requirements in the elementary education curriculum are shown in the typical course sequence at the end of this Department of Elementary Education section.

II PROFESSIONAL EDUCATION - - - - - - 22 SEMESTER HOURS
EdF 100 School and Society (3)
EdP 250 Psychology of Learning and Development (3)
EdM 300 Audio-Visual Education (2)
EdP 351 Evaluation and Measurement (2)
EdE 411 Student Teaching and Practicum (12)

III SPECIALIZED PREPARATION - - - - - - 37 SEMESTER HOURS
Art 202 Art for the Elementary Grades I (3)
EdP 251 Human Development' Childhood (3)
Mus 231 Music for the Primary Grades
or
Mus 232 Music for the Intermediate Grades (3)
PEd 201 Practice and Theory in Elementary Physical Education (1)
(credited to General Requirements)
PEd 202 Dance Activities in the Elementary Program (1)
Sci 250 Science for the Elementary Grades (3)
SpP 201 Introduction to Speech Problems (3)
EdE 309 Language Arts in the Elementary School (6)
or, with departmental approval,
EdE 317 Oral and Written Expression in the Elementary School (3)
and
EdE 319 Reading in the Elementary School (3)
HEd 350 Health for the Elementary Grades (3)
Lit 350 Children's Literature (3)
Mat 351 Teaching Mathematics in Elementary Schools (3)
SSc 332 Teaching Social Studies and Geography in Elementary Schools (3)
EdE 401 Current Trends in Elementary Education (3)

IV ELECTIVES - - - - - - - - 13—21 SEMESTER HOURS
In order to meet the State requirement for concentrated study in a specific field and to earn part or all of the elective credits required for graduation, elementary education majors must select an area of interest from the list below. This is not a minor field; it does not — except for foreign language and special education — add any field to the teaching certificate. All elective courses, whether or not they are part of an area of interest, should be selected under advisement by the department involved.

AREAS OF INTEREST

ART 24 s.h.
Elementary Education
Curriculum Requirements (6 s.h.)
Art 101 Fine Arts
Art 202 Art for the Elementary Grades I
Area of Interest Requirements (6)
Art 201 Arts and Crafts
Art 203 Art for the Elementary Grades II

Electives (12 s.h.)
Courses in Art, selected under advisement.

ENGLISH 26 s.n.
Elementary Education
Curriculum Requirements (20 s.h.)
Eng 101 English Composition I
Eng 102 English Composition II
Sph 101 Fundamentals of Speaking
Lit 121 General Literature I
Lit 122 General Literature II
Lit 350 Children's Literature
SpP 201 Introduction to Speech Problems

Electives (6 s.h.)
2 electives in English

ENGLISH AND FOREIGN LANGUAGE 26 s.h.
Elementary Education
Curriculum Requirements (14 s.h.)
Eng 101 English Composition I
Eng 102 English Composition II
Sph 101 Fundamentals of Speaking
Lit 121 General Literature I
Lit 122 General Literature II

Electives
12 s.h. in a foreign language (in addition to 2 years or more of that language in high school)
Note: See Department of Foreign Languages before scheduling language courses.

EXPRESSIVE LANGUAGE ARTS 24 s.h.
Elementary Education
Curriculum Requirements (11 s.h.)
Eng 101 English Composition I
Eng 102 English Composition II
Sph 101 Fundamentals of Speaking
SpP 201 Introduction to Speech Problems
Area of Interest Requirements (6 s.h.)
ThA 105 Oral Interpretation
ThA 207 Creative Dramatics
Electives (7 s.h.)
Courses in English, Speech, and Theatre Arts, selected under advisement

GEOGRAPHY 21 s.h.
Elementary Education
Curriculum Requirements (6 s.h.)
Geo 101 World Geography
SSc 332 Teaching Social Studies and Geography in Elementary Schools
Area of Interest Requirements (3 s.h.)
Geo 202 Geography of the U.S. and Canada *or*
Geo 314 Geography of the U.S. and Pennsylvania
Electives (12 s.h.)
Selected under advisement.
The following are most suitable:
Geo 201 Conservation of Natural Resources
Geo 203 Economic Geography
Geo 204 Geography of Pennsylvania
Geo 207 Geography of Europe
Geo 208 Geography of Latin America
Geo 300 Physical Geography

HEALTH AND PHYSICAL EDUCATION 24 s.h.
Elementary Education
Curriculum Requirements (8 s.h.)
PEd 101 Survey of Physical Education I

PEd 201 Practice and Theory in Elementary Physical Education
PEd 202 Dance Activities in the Elementary Program
HEd 150 Health
HEd 350 Health for the Elementary Grades

Area of Interest Requirements (13 s.h.)
PEd 261 History and Philosophy of Physical Education
PEd 365 Physical Activities for Atypical Children I
PEd 465 Elementary Physical Education Curriculum
PEd 466 Self-Testing Activities in Elementary School Physical Education
HEd 253 The School Health Program
HEd 353 First Aid for Teachers

Electives (3 s.h.)
Selected under advisement from the following:
PEd 131 Aquatic Fundamentals
PEd 341 Modern Dance I
PEd 355 Kinesiology
PEd 367 Arts and Crafts in Recreation
PEd 370 Camping and Outing
PEd 481 Introduction to Safety Education
HEd 153 Community Health

HISTORY 24 s.h.

Elementary Education Curriculum Requirements (9 s.h.)
His 101 History of Civilization I
His 102 History of Civilization II
His 211 History of U.S. and Pa. I

Area of Interest Requirement (3 s.h.)
His 212 History of U.S. and Pa. II

Electives (12 s.h.)
Selected under advisement from the following:

A. American History (3)
His 313 History of Pennsylvania
His 316 History of the American Frontier
His 317 History of American Science and Technology
His 319 Social and Cultural History of the U.S.
His 320 History of the South
His 339 History of the Negro American

B. European History (3)
His 219 Medieval Europe
His 331 History of England to 1688
His 332 History of England since 1688
His 340 Modern Germany
His 350 Russian History to 1917
His 351 Soviet Russia

C. World and Regional History (6)
His 218 The Ancient World
His 322 History of South Asia
His 323 History of the Middle East
His 325 History of the Twentieth Century World
His 327 History of the British Empire-Commonwealth
His 328 History of Modern Africa
His 329 History of East Asia
His 333 History of Latin America to 1825
His 334 History of Latin America since 1825

MATHEMATICS 24 s.h.

Elementary Education Curriculum Requirements (6 s.h.)
Mat 101 Introduction to Mathematics I
Mat 351 Teaching Mathematics in Elementary Schools

Area of Interest Requirements (9 s.h.)
Mat 102 Introduction to Mathematics II
Mat 311 Algebra for Elementary Teachers

Mat 331 Geometry for Elementary Teachers
Electives (9 s.h.)
Selected under advisement from the following:
Mat 105 College Algebra and Trigonometry
Mat 106 Foundations of Mathematics
Mat 121 Statistics
Mat 141 Analytic Geometry and Calculus I
Mat 142 Analytic Geometry and Calculus II
Mat 211 Linear Algebra
Mat 231 Modern Geometry I
Mat 401 History of Mathematics

MUSIC 24 s.h.
Prerequisites: Music qualifying tests and approval by the School of Music.
MUSIC HISTORY (6 s.h.)
Mus 221 Music in Western Civilization I
(in place of Mus 121)
Mus 321 Music in Western Civilization II
THEORY OF MUSIC (6 s.h.)
Mus 111 Foundations of Music
Mus 113 Sight Singing I
PROFESSIONAL EDUCATION (6 s.h.)
Mus 331 Elementary Music Methods
(in place of Mus 231 or Mus 232)
Mus 334 Teaching Music Appreciation in the Elementary Grades
APPLIED MUSIC (6 s.h.)
Performance Area [individual lessons] (3 s.h.)
Voice [individual lessons] (1 s.h.)
Musical Organization (1 s.h.)
Elective (1-2 s.h.)

PSYCHOLOGY 23 s.h.
Elementary Education
Curriculum Requirements (11 s.h.)
Psy 100 Introduction to Psychology
EdP 250 Psychology of Learning and Development
EdP 251 Human Development: Childhood
EdP 351 Evaluation and Measurement
Electives (12 s.h.)
4 courses in psychology

SCIENCES 26 s.h.
Elementary Education
Curriculum Requirements (11 s.h.)
Bio 100 Basic Biological Science
Sci 150 Basic Physical Science
Sci 250 Science for the Elementary Grades
Electives (15 s.h.)
Selected under advisement from the following:
A. Biological Science
Bio 210 Field Botany
Bio 241 Field Zoology
Bio 242 Ornithology
Bio 301E Basic Genetics
Bio 302E Ecology
Bio 341E Entomology
Bio 355 Wildlife Conservation
B. Physical Science
Sci 251 Matter and Energy
ESS 101 Earth Science
ESS 111 General Astronomy
ESS 201 Physical Geology

SOCIAL SCIENCES 24 s.h.
Elementary Education
Curriculum Requirements 18 s.h.
Geo 101 World Geography
His 101 History of Civilization I
His 102 History of Civilization II
His 211 History of U.S. and Pa. I
PSc 231 American Government
SSc 332 Teaching Social Studies and Geography in Elementary Schools

[Continued]

Electives (6 s.h.)
2 courses (1 in sociology, the other in economics)

SPECIAL EDUCATION 25 s.h.
Elementary Education
Curriculum Requirements 14 s.h.
Art 202 Art for the Elementary Grade I
Psy 100 Introduction to Psychology
EdP 250 Psychology of Learning and Development
EdP 251 Human Development: Childhood
EdP 351 Evaluation and Measurement
Elective Areas (11 s.h. each)
(Choose either field)
Teaching the Mentally Retarded
Psy 241 Psychology of Exceptional Children
Psy 243 Psychology of the Mentally Retarded
EdA 348 Curriculum and Methods for the Mentally Retarded
EdA 344 Problems in Special Education
or
Teaching the Physically Handicapped
Psy 241 Psychology of Exceptional Children
PEd 391 Psychology of the Physically Handicapped
EdA 349 Curriculum and Methods for the Physically Handicapped
PED 390 Physical Disabilities of Childhood

TEACHING THE SPEECH AND HEARING HANDICAPPED 22–24 s.h.
Area of Interest Requirements
Sph 106 Introduction to Phonetics
SpP 100 Bases of Speech
SpP 202 Speech Pathology I
(SpP 201—Introduction to Speech Problems [required in the Elementary Curriculum] may be substituted with the instructor's permission.)
SpP 203 Speech Pathology II
SpP 301 Introduction to Hearing Problems
SpP 302 Speech and Language Development
SpP 303 Clinical Practicum (4–6 s.h.)

URBAN EDUCATION 24 s.h.
Elementary Education
Curriculum Requirements (9 s.h.)
EdF 100 School and Society
EdP 250 Psychology of Learning and Development
EdP 251 Human Development Childhood

Area of Interest Requirements (12 s.h.)
Soc 231 Introduction to Sociology
Soc 335 Racial and Cultural Minorities
EdU 360 The Culturally Disadvantaged Child
EdU 361 Teaching in Urban Schools
Elective (3 s.h.)
Soc 332 Contemporary Social Problems
Soc 333 The Family
Soc 334 Juvenile Delinquency
Soc 336 Urban Sociology
Soc 340 Introduction to Social Work
Eco 333 Consumer Economics
His 339 History of the Negro American
Lit 340 Minority Cultures in American Literature
Psy 354 Social Psychology

TYPICAL COURSE SEQUENCE IN THE ELEMENTARY EDUCATION CURRICULUM

(The sequence of courses is subject to change for administrative reasons.)

FRESHMAN YEAR

			Semester Hours
Art	101	Fine Arts (Art)	3
Bio	100	Basic Biological Science	4
Eng	101	English Composition I	3
Eng	102	English Composition II	3
Geo	101	World Geography	3
HEd	150	Health	2
Mat	101	Introduction to College Mathematics I	3
Mus	121	Fine Arts (Music)	3
PEd	101	Survey of Physical Education I	1
Psy	100	Introduction to Psychology	3
Sci	150	Basic Physical Science	4
Sph	101	Fundamentals of Speaking	2
			34

(all courses shown for the Freshman Year are credited to General Requirements)

SOPHOMORE YEAR

			Semester Hours
Art	202	Art for the Elementary Grades I	3
EdF	100	School and Society	3
EdP	250	Psychology of Learning and Development	3
His	101	History of Civilization I	3
His	102	History of Civilization II	3
		(101-102 credited to General Requirements)	
Lit	121	General Literature I	3
Lit	122	General Literature II	3
		(121-122 credited to General Requirements)	
Mus	231	Music for the Primary Grades *or*	
Mus	232	Music for the Intermediate Grades	3
PEd	201	Practice and Theory in Elementary Physical Education	1
		(credited to General Requirements)	
PEd	202	Dance Activities in the Elementary Program	1
SpP	201	Introduction to Speech Problems	3
		Elective	3
			32

JUNIOR YEAR

			Semester Hours
EdP	251	Human Development: Childhood	3
EdE	309	Language Arts in the Elementary School	6
EdM	300	Audio-Visual Education	2
HEd	350	Health for the Elementary Grades	3
His	211	History of the U.S. and Pennsylvania I	3
		(credited to General Requirements)	
Lit	350	Children's Literature	3
Mat	351	Teaching Mathematics in Elementary Schools	3
Sci	250	Science for the Elementary Grades	3
SSc	332	Teaching Social Studies and Geography in Elementary Schools	3
		Electives	6
			35

SENIOR YEAR

		Semester Hours
EdE 401	Current Trends in Elementary Education	3
EdE 411	Student Teaching and Practicum	12
EdP 351	Evaluation and Measurement	2
Phi 280	Introduction to Philosophy (credited to General Requirements)	3
PSc 231	American Government (credited to General Requirements)	3
	Electives	4
		27

DEPARTMENT OF SECONDARY EDUCATION AND PROFESSIONAL STUDIES

Walter N. Ridley, *Chairman*

A major in secondary education may be earned in biology, chemistry, comprehensive science, earth and space science, English, French, geography, German, history, Latin, mathematics, physics, Russian, social studies, Spanish, and Speech and Theatre. Upon satisfactory completion of the requirements of the secondary curriculum, the student will be granted the degree of Bachelor of Science in Education by the College and will qualify for a Pennsylvania Provisional Certificate, valid for teaching specific subjects in an approved secondary school in Pennsylvania for three years. Students must choose one field of specialization.

GENERAL REQUIREMENTS—SECONDARY EDUCATION MAJORS

Although the General Requirements of the College are primarily the same for all subject fields, certain variations are made when there is logical reason for them. The basic pattern for General Requirements may be noted in the opening pages of Programs of Study (locate by leafing to black bar on margin). To determine approved substitutions for his particular field, the secondary education major must consult the course requirements listed under the heading of his field.

PROFESSIONAL EDUCATION— SECONDARY EDUCATION MAJORS

Professional Education Courses		Semester Hours
EdF 100	School and Society	3
EdP 250	Psychology of Learning and Development	3
EdM 300	Audio-Visual Education	2
EdS 306	Field Experience in Secondary Education	3
EdP 351	Evaluation and Measurement	2
EdS 412	Student Teaching for Secondary Majors, including Practicum	12
	Methods of Teaching Academic Subject	3
	Total	28

SPECIALIZATION FOR SECONDARY TEACHING

Specialization in one of the teaching fields listed below is required for graduation in secondary education. For a particular field, fulfillment of the minimum semester-hour requirement shown will satisfy the teacher certification requirement in Pennsylvania. Requirements for these fields of specialization are spelled out in detail under the various departmental headings in the College of Arts and Sciences section.

Field	Minimum Semester Hours Required	Field	Minimum Semester Hours Required
Biology	39	German	30
Chemistry	41	History	36
Comprehensive English	36	Latin	30
Comprehensive Science	44	Mathematics	36
Comprehensive Social Studies	36	Physics	40
Earth and Space Science	44	Russian	30
French	30	Spanish	30
Geography	30	Speech and Theatre	34

In planning his program, the secondary education major must confer frequently with his adviser. The final certification of all students whose goal is the Bachelor of Science in Education (secondary and elementary) is the responsibility of the Dean of the School of Education.

CERTIFICATION PROGRAMS IN SPECIAL EDUCATION*

Howard Freeman, *Coordinator*

Two programs in special education enable students to secure certification to teach classes for the mentally retarded or the physically handicapped. The course sequences included in the programs are offered as extensions of existing curricula and permit students to graduate with dual certification, that is, their teaching certificates will be valid for teaching in the regular classroom and in special classes for either the mentally retarded or the physically handicapped.

The program at West Chester meets the state requirements of a minimum of twelve semester hours and is so planned that regular elementary students will not find it necessary to carry an overload or attend summer sessions. Courses in special education are offered as part of the regular summer program, but in most cases certification should be possible without summer study.

* Each of the special education programs also constitutes an area of interest in the elementary education curriculum.

Students working toward a degree in secondary education will receive dual certification upon completion of the Special Education courses and basic courses in the teaching of reading for the elementary grades and the teaching of mathematics for the elementary grades. In order to acquire these additional credits, it may be necessary for secondary education students to attend summer school.

Student Teaching. In both programs, not less than four weeks nor more than nine weeks of the regular student teaching is to be allocated to a special education station.

Special education courses are scheduled to enable students to begin the program during the second semester of their sophomore year. Students interested in teaching retarded or physically handicapped children should indicate their interest when planning their sophomore schedule, and are advised to confer with the Coordinator of Special Education. Those students who are not certain of their interest in the field may enroll in one or more of the special education courses on an exploratory basis, to determine the degree of their personal commitment to the field. If the program is not pursued further, the courses will serve as elective credits in other curricula.

Students wishing to explore these programs are invited to consult with the Coordinator of Special Education, Special Education Building.

Program for Teaching the Mentally Retarded

Prerequisite: Psy 100 Introduction to Psychology

		Semester Hours
Psy 241	Psychology of Exceptional Children	3
Psy 243	Psychology of the Mentally Retarded	3
EdA 344	Problems in Special Education	2
EdA 348	Curriculum and Methods for the Mentally Retarded	3
Art 202	Art for the Elementary Grades I (required for all elementary education majors)	3
		14

Note: The first four courses should be taken in the order shown.

Program for Teaching the Physically Handicapped

Prerequisite: Psy 100 Introduction to Psychology

		Semester Hours
Psy 241	Psychology of Exceptional Children	3
PEd 390	Physical Disabilities of Childhood	2
PEd 391	Psychology of the Physically Handicapped	3
SpE 349	Curriculum and Methods for the Physically Handicapped	3
Art 202	Art for the Elementary Grades I (required for all elementary education majors)	3
		14

Note: The first four courses should be taken in the order shown.

DEGREE PROGRAM IN SPECIAL EDUCATION

West Chester offers a degree program in special education with *Speech Pathology and Audiology* as the concentration. The program qualifies the student for the Pennsylvania Provisional Certificate in Teaching the Speech and Hearing Handicapped, permitting him to teach in this area of special education in the public schools of the Commonwealth. The degree requirements are stated under the Department of Speech and Theatre, which provides the specialized preparation for the field. Students interested in the speech pathology and audiology program are invited to consult with the Chairman of the Department of Speech and Theatre.

URBAN EDUCATION PROGRAM

F. William Leeds, *Coordinator*

West Chester offers a special program which strengthens the preparation of teachers who wish to work in the schools of the inner cities, where the need for skilled teachers is acute.

The prospective urban teacher needs both carefully planned college courses and equally well planned experience in the schools. Because of the complexity of urban civilization and the diversity of the persons and situations he deals with, the urban teacher should have a particularly rich background in both the liberal arts and professional studies.

The urban education program does not provide additional certification and does not vary essentially from the normal requirements for either the elementary or the secondary major. However, the student who undertakes the program is required to take at least half of his student teaching in the urban school. He must also take a special core of course work related to teaching in the inner city.

Elementary education majors incorporate the urban education program into their curriculum by selecting it as their area of interest. (Refer to *Areas of Interest* above.)

Secondary education majors who wish to consider this special preparation must first consult with the Coordinator of Urban Education. Unless the requirements for their field are unusually heavy, they are generally able to fit the urban education core into their curriculum without going beyond the minimum 128 hours required for graduation.

GRADUATE PROGRAM FOR GUIDANCE AND COUNSELING

Abe S. Kramer, *Coordinator*

Undergraduates interested in becoming guidance counselors should be aware that this program is entirely at the graduate level. It leads to the Master of Education degree and may also provide certification. For detailed information, the West Chester State College Graduate Studies catalogue should be consulted. It is particularly important for the undergraduate, anticipating a career in guidance, to know that he must have an undergraduate background of 15 credits in guidance-related courses as a basic requirement for admission to West Chester's graduate guidance program. These credits should include such courses as EdC 150, EdA 243, EdP 250, EdP 251, EdA 344, EdP 351, EdU 360, Mat 121, appropriate courses in psychology, and certain courses in sociology. Undergraduates wishing further advice are invited to consult with the Coordinator of the Graduate Program for Guidance and Counseling.

SCHOOL OF HEALTH AND PHYSICAL EDUCATION

Norman L. Sheets, *Dean*

Edwin L. Youmans, *Associate Dean for Graduate Studies*

Edwin B. Cottrell, *Assistant to the Dean*

Walter E. Funk, *Chairman, Department of Health Education*

Melvin M. Lorback, *Chairman, Department of Physical Education*

Robert W. Reese, *Director of Athletics*

Barbara J. Coates, *Coordinator of Women's Activities*

Alvin B. Davis, *Coordinator of Student Teaching*

PROFESSORS

COCHRAN
COTTRELL
MITTEN
NORRIS
SHEETS
STURZEBECKER
YOUMANS

ASSOCIATE PROFESSORS

BALDWIN
BRUESS
CHARTERS
COATES
DAVIS
DONLEY
FISHER
FUNK
GOODWIN
KOLACKI
LEMCKE
LE VEAU
LORBACK
MARGERUM
REED
SERPICO
STEINMETZ
WILKINSON
WINTERMUTE
YANISCH
YODER
YOUNG

ASSISTANT PROFESSORS

BUTLER
COLLIER
ECKMAN
FURLOW
GREENWOOD
HOPKINS
HUFFMAN
LEIGHTY
PAGANO
REESE
SCHAUB
SMITH
STACKOWSKI (PART-TIME)
STUTZMAN
TRNKA

INSTRUCTORS

ALFORD
ALLEN (PART-TIME)
BRETHAUER
CELAIN
COOPER
FORSYTH
GIUNTA
GROS
JONES
KRAMER (PART-TIME)
LEIGHTON
MARIA
NYE
PARKINGSON
REMLEY (PART-TIME)
SMILEY
SPANGLER (PART-TIME)
SPROCK (PART-TIME)
WEBER
WOODS

HEAD COACHES FOR MEN

BASEBALL—KILLINGER
BASKETBALL—FUNK
CROSS-COUNTRY—BUTLER
FOOTBALL—MITTEN
GOLF—COTTRELL
GYMNASTICS—TRNKA
SOCCER—LORBACK
SWIMMING—NORRIS
TENNIS—WOODS
TRACK—YOUMANS
WRESTLING—COLLIER

HEAD COACHES FOR WOMEN

ARCHERY—YANISCH
BADMINTON—GREENWOOD
BASKETBALL—ECKMAN
BOWLING—MARIA
FIELD HOCKEY—GROS
GYMNASTICS—STUTZMAN
LACROSSE—GROS
SOFTBALL—WEBER
SWIMMING—LEIGHTON
TENNIS—LEIGHTON

The School of Health and Physical Education emerged as one of the three schools in the College as a result of reorganization instituted in September, 1967. The new School inherits a record of excellence and a long history; West Chester's program of coeducational physical education is one of the oldest in the United States. The first Director of Physical Training, Dr. Clyde Ehinger, was appointed in 1890.

PROGRAMS OF STUDY

A four-year program leading to a Bachelor of Science in Health and Physical Education and a Provisional College Certificate is offered by the School of Health and Physical Education. This certificate is valid for teaching health and physical education in the elementary and secondary schools of Pennsylvania for three years. The School also offers courses leading to certification in Education for Safe Living. This program includes highway and general safety education. Students who desire to prepare as recreation leaders are afforded the opportunity to elect courses in recreation and to take part in a special program in camp leadership during the summer.

The School services the total college enrollment by providing courses in physical education and a course in health education for all undergraduate students. In addition, there is a broad program of recreational activities and intramural and intercollegiate athletics for all men and women at West Chester State College.

FACILITIES

Facilities to support the programs of the School have kept pace with a rapid increase in students and faculty. The latest addition, scheduled for completion in 1969, is a health and physical education center on South Campus. Among its notable components are its research facilities, its multi-purpose teaching stations, and a one-acre gymnasium divisible into six separate pneumatically sealed gymnasiums. A vast complex of tennis courts and baseball, lacrosse, field hockey, soccer, and football fields will also be located on the South Campus.

ADMISSION

Students seeking admission to the School of Health and Physical Education must meet the basic requirements of the College (see Admission to West Chester). In addition, they must have participated in both physical education classes and extracurricular athletic programs in their secondary schools. A pre-admission interview, conducted by members of the School faculty, evaluates the candidate's evidence of leadership and the extent of participation in athletic programs.

Transfer Students — see "Admission of Transfer Students" and "Advanced Credit Requirement" under Admission to West Chester.

PROFESSIONAL REQUIREMENTS

Students majoring in health and physical education are required to purchase uniforms. (For details, see "Additional Costs" under Expenses.) As a prerequisite for senior standing, students must have completed the extracurricular and sports credit requirement of the Department of Physical Education.

MEN'S INTERCOLLEGIATE ATHLETIC PROGRAM

Because athletic activities provide situations similar to experiences in life, West Chester views athletics as an important part of the college experience — indeed, as a facet of education. West Chester's athletic program has as its underlying purpose the development of enduring educational values. Another important phase of the athletic program is the training given to those who will later be called upon to coach. The program is administered by the School of Health and Physical Education. To permit as many men as possible to take part, the School offers a wide variety of sports activities, including football, baseball, basketball, soccer, track, wrestling, swimming, tennis, gymnastics, golf, and cross-country. Schedules are sought which, while in the College's class, measure up to the high athletic traditions and standing of West Chester. It is the College's policy to give its athletic program an important place in college life, with an emphasis in proportion to the value of the program.

West Chester is a member of the National Collegiate Athletic Association, the Middle Atlantic States Collegiate Athletic Conference, the I.C.4A., the Pennsylvania State College Athletic Conference, and a charter member of the Eastern Collegiate Athletic Conference.

Along with wide opportunities for participation, West Chester has excellent facilities and equipment, and when its new health and physical education center is completed, the College will have one of the ranking settings for training and research in health and physical education. All coaches are members of the faculty.

MEN'S INTRAMURAL ATHLETICS

Out of awareness that an athletic program is not educationally justified if confined to intercollegiate competition, West Chester provides a variety of athletic activities which are available to all students. Such sports as touch football, swimming, soccer, tennis, basketball, track, softball, and volleyball are conducted for men.

WOMEN'S ATHLETICS

In the interests of its women students, West Chester provides a broad variety of team, individual, and dual sports activities designed for them. Through participation in the planning, organizing, and performance of these sports, leadership responsibilities are developed. All women students are eligible to take part in women's intramural and intercollegiate sports programs.

WOMEN'S INTERCOLLEGIATE ATHLETIC PROGRAM

The activities of the WIAP are conducted by the adviser of the program, the women coaches, and a student advisory council consisting of the managers of the varsity sports. The program includes a variety of team and individual sports, such as hockey, swimming, lacrosse, bowling, badminton, softball, gymnastics, basketball, tennis, and synchronized swimming. In accordance with the highest ideals of good sportsmanship,

the activities are planned to provide opportunities for wholesome competition with college women of comparable skill. Participating students develop interest and skill in worthy leisure-time activities, further cultural understanding through contacts with students from other colleges, and gain experience in coaching. The entire women's intercollegiate program is guided by the standards and policies of the Division of Girls' and Women's Sports, a division of the American Association of Health, Physical Education, and Recreation.

WOMEN'S INTRAMURAL ATHLETICS

The Women's Athletic Association conducts intramural athletics for the social, physical, and recreational benefit of the women students. The governing council consists of the club officers and sports managers, who are elected by the students and a faculty adviser. Hockey, volleyball, basketball, tennis, softball, table tennis, lacrosse, and badminton are among the activities available. The organization fosters good sportsmanship and increased participation. It views personal satisfaction and enjoyment as the desired outcomes of sports activity. The WAA belongs to the National Athletic and Recreation Federation of College Women and the Pennsylvania Division of the Athletic and Recreation Federation of College Women.

B.S. IN HEALTH AND PHYSICAL EDUCATION

Candidates must satisfactorily complete 128 semester hours distributed among three areas as follows:

I GENERAL REQUIREMENTS - - - 62 SEMESTER HOURS

SKILLS AND COMPETENCIES	13 S. H.
Eng 101—Composition I	3
Eng 102—Composition II	3
Sph 101—Fund. of Speaking	2
PEd 111—Intro. to Gymnastics	1
PEd 112—Intro. to Tumbling	1
HEd 151—Personal Health	3
HUMANITIES	**15 S. H.**
Art 101—Fine Arts (Art)	3
Lit 121—General Literature I	3
Lit 122—General Literature II	3
Mus 121—Fine Arts (Music)	3
Phi 280—Intro. to Philosophy	3
SOCIAL SCIENCES	**15 S. H.**
Psy 100—Intro. to Psychology	3
His 101—History of Civ. I	3
His 102—History of Civ. II	3
PSc 231 American Government	3
His 212—History of U.S. and Pa. II	3
SCIENCES	**19 S. H.**
Mat 101—Introduction to College Mathematics I	3
Che 100—Princ. of Chemistry	4
Sci 150—Basic Physical Science	4
Bio 261—Human Anatomy	4
Bio 262—Human Physiology	4

II PROFESSIONAL EDUCATION - - - 30 SEMESTER HOURS

EdF 100—School and Society	3
EdM 300—Audio-Visual Education	2
EdP 250—Psychology of Learning and Development	3
PEd 211—Preparation for Teaching Elem. Phys. Edu.	1
PEd 311—Preparation for Teaching Sec. Phys. Edu.	1
HEd 351—Human Development	3
HEd 352—Methods and Materials in Health Education	2
PEd 361—Tests, Measurements, and Statistics in Health and Phys. Edu.	3
PEd 471—Student Teaching in the Secondary School, including Practicum	12

III HEALTH AND PHYSICAL EDUCATION - 36 SEMESTER HOURS

PEd 121M—Individual Sports 1
PEd 121W—Lacrosse and Track and Field
PEd 122M—Soccer/Wrestling 1
PEd 122W—Hockey/Volleyball
PEd 131—Aquatic Fundamentals 1
PEd 132—Life Saving and Water Safety 1
HEd 153—Community Health 2
PEd 212M—Introduction to Heavy Apparatus 1
PEd 212W—Advanced Gymnastics
PEd 221M—Football, Track and Field 1
PEd 221W—Adv. Hockey, Lacrosse
PEd 222M—Basketball and Baseball 1
PEd 222W—Basketball and Tennis
PEd 241—Elementary Rhythms and Folk Dance 1
PEd 242—Social and Square Dance 1
HEd 252—First Aid and Prev. of Athletic Injuries 2
HEd 253—School Health Program 2
PEd 261—History and Philosophy of Physical Education 2
PEd 322—Organization and Admin. of Athletics 1
PEd 323M—Adv. Basketball, Football, Soccer, Track/Field 1
PEd 323W—Tennis, Softball (etc.)
PEd 324M—Baseball, Softball (etc.) 1
PEd 324W—Badminton, Golf (etc.)
PEd 341M—Elective 1
PEd 341W—Modern Dance I
PEd 362—Phys. Ed. for Elem. Grades 3
PEd 364—Org. and Adm. of P. E. 2
PEd 365—Phys. Activities for Atypical Children I 2
PEd 455—Applied Physiology 2
PEd 461—Phys. Activities for Atypical Children II 2
PEd 462—Principles of Recreation 2
PEd 463—Principles of Coaching 2

TYPICAL COURSE SEQUENCE FOR HEALTH AND PHYSICAL EDUCATION MAJORS

FIRST SEMESTER	SEM. HRS.
EdF 100—School and Society	3
Eng 101—English Composition I	3
Mat 101—Intro. to College Mathematics I	3
Sph 101—Fund. of Speaking	2
PEd 111M—Gym Activities	
PEd 111W—Soccer/Spdb/Bkb	1
PEd 121M—Individual Sports	
PEd 121W—Lacross/Track/Field	1
PEd 131—Aquatic Fundamentals	1
HEd 151—Personal Hygiene	3
	17

SECOND SEMESTER	SEM. HRS.
Art 101—Fine Arts (Arts)	3
Che 100—Principles of Chemistry	4
Eng 102—English Composition II	3
Psy 100—Intro. to Psychology	3
PEd 112M—Tumbling/Vaulting	
PEd 112W—Gym, Fund. of Exercises	1
PEd 122M—Soccer/Wrestling	
PEd 122W—Hockey/Volleyball	1
PEd 132—Life Saving	1
HEd 153—Community Health	2
	18

THIRD SEMESTER	SEM. HRS
Bio 261—Human Anatomy	4
His 101—History of Civilization I	3
Lit 121—General Literature I	3
Sci 150—Basic Physical Science	4
PEd 211—Prep. Tch. Elem. PE	1
PEd 221M—Football/Track/Field	
PEd 221W—Adv. Hk/Lac/Tr/Fld	1
PEd 241—Elem Rhy/Flk Dance	1
PEd 341W—Modern Dance I (Men) Elective	1
	18

FOURTH SEMESTER	SEM. HRS.
His 102—History of Civilization II	3
Lit 122—General Literature II	3
PEd 212M—Heavy Apparatus	
PEd 212W—Advanced Gymnastics	1
PEd 222M—Basketball/Baseball	
PEd 222W—Basketball/Tennis	1
PEd 242—Social/Square Dance	1
HEd 252—First Aid	2
HEd 253—School Health Program	2
PEd 261—History of Physical Education	2
	15

FIFTH SEMESTER	SEM. HRS.
EdP 250—Psychology of Learning and Development	3
EdM 300—Audio-Visual Education	2
PEd 323M—Ad Fb/Bkb/So/Tr/Fld	
PEd 323W—Tn/Sfb/OffHk/Bkb	1
HEd 351—Human Development	3
PEd 361—Tests/Meas./Stat. in Physical Education	3
PEd 362—Physical Education for Elementary Grades	3
PEd 365—Physical Activities for Atypical Children I	2
	17

SIXTH SEMESTER	SEM. HRS.
Bio 262—Human Physiology	4
His 212—History of U.S. and Pa. II	3
Mus 121—Fine Arts (Music)	3
PEd 311—Prep for Teaching Second. Phys. Edu.	1
PEd 322—Organization and Administration of Athletics	1
PEd 324M—Bsb/Golf/Tennis	
PEd 324W—Bdm/Golf/Archery	1
HEd 352—Methods and Materials of Health Education	2
PEd 364—Org. and Admin. of Physical Education	2
	17

SEVENTH SEMESTER	SEM. HRS.
Phi 280—Intro. to Philosophy	3
PSc 231—American Government	3
PEd 455—Applied Physiology	2
PEd 461 Physical Activities for Atypical Children II	2
PEd 462—Princ. of Recreation	2
PEd 463—Prin. of Coaching	2
	14

EIGHTH SEMESTER	SEM. HRS.
PEd 471—Student Teaching in the Secondary School, including Practicum	12
	12

TOTAL SEMESTER HRS. 128

CERTIFICATION PROGRAM IN EDUCATION FOR SAFE LIVING

[HIGHWAY SAFETY AND GENERAL SAFETY EDUCATION]

The standards for certification as approved by the State Council of Education, January 9, 1948, require twelve semester hours for the extension of a teacher's certificate to include this field. The following courses are offered by the School to satisfy the course requirement in this field:

		Semester Hours
PEd 481	Introduction to Safety Education	3
PEd 482	Driver Education and Training	3
PEd 483	Psychology of Accident Prevention	3
PEd 484	Methods and Materials in Safety Education	3
PEd 485	Organization and Administration in Safety Education	3

A PROGRAM IN RECREATION LEADERSHIP

For students who desire to prepare as recreation leaders, the Department of Physical Education provides appropriate elective courses, in addition to related courses included in the requirements for the health and physical education major. The Department also offers a special program in camp leadership for staff members at children's summer camps. This supervised field experience is designed to aid the student's professional growth through work with children in the informal atmosphere of the camp.

Any West Chester student is eligible to participate in the field program. If credit is to be applied toward a degree, permission of his adviser should be obtained.

Students from other colleges may register, with the permission of the course instructor. They are advised to obtain approval from their own college in order to assure that credits from the course may be applied toward degree requirements. The available electives, as well as the summer field experience, are described below:

		Semester Hours
PEd 462	Principles of Recreation	3
PEd 367	Arts and Crafts in Recreation	3
PEd 370	Camping and Outing	3
Summer Field Experience		
PEd 464	Supervised Camping Leadership (6 to 8 weeks' attendance at camp July through August)	3

SCHOOL OF MUSIC

Lloyd C. Mitchell, *Dean*

Alexander Antonowich, *Assistant Dean*

Charles A. Sprenkle, *Associate Dean for Graduate Studies and Research*

PROFESSORS

ANTONOWICH
CHEESMAN
JOHNS
MITCHELL
PARRIS
SCHICK
THOMSON
VELETA, R.
WILKINSON
WRIGHT

ASSOCIATE PROFESSORS

ALT
BACHMANN
BARROW
BEDFORD, A. (PART-TIME)
BEDFORD, R.
CAREY
CARSON
GANGEMI
GOTTLIEB
HALES
HAYS
MARKOW
MERRELL
MUNGER
PENNINGTON
PETHES
PFLIEGER
SHEPPARD
SMITH
SPRENKLE
SWEET
WEISS
WELLS
WHITTEN, B.
WILLIAMS

ASSISTANT PROFESSORS

BEATTY
BOERLIN
CARL
COLLINS
CONAWAY
FARESE
FRENZ
GUIDETTI
KLEIN
KRUEGER
MIDDLETON
MILLER
SOUTHALL
VANDEVER
WAGNER
WHITTEN, J. (PART-TIME)

INSTRUCTORS

BREUNINGER (PART-TIME)
GOEBEL (PART-TIME)
LAUDERMILCH
SULLIVAN
VELETA, M. (PART-TIME)

BACHELOR OF SCIENCE IN MUSIC EDUCATION
BACHELOR OF ARTS IN MUSIC
BACHELOR OF MUSIC

THE SCHOOL OF MUSIC offers three programs of study leading to undergraduate degrees:

[1] *Bachelor of Science in Music Education*: a balanced program of general, specialized, and professional courses leading to qualification for a Pennsylvania Provisional College Certificate to teach music in the elementary and secondary schools of Pennsylvania for three years.

[2] *Bachelor of Arts in Music*: a balanced program of courses which are general and specialized, providing a concentration area in either

applied music or a combination of music theory and music literature; structured for students desiring a liberal-arts education with a major in music.

[3] *Bachelor of Music*: a balanced program of courses which are general, specialized, and professional for the performing musician; structured for students desiring a college degree and interested in such areas as professional performance, studio teaching, and church music.

ENTRANCE REQUIREMENTS

Candidates for admission to the School of Music must meet the general requirements for admission as indicated under Admission to West Chester. In addition, all candidates must appear for a personal interview and certain music tests, which vary according to the degree program sought.

The College will provide large instruments such as the tuba, string bass, or timpani for these tests. All smaller instruments must be brought to the College. All candidates will take the Seashore Test of Musical Talent, for which no preparation is necessary.

The following are acceptable as "major" instruments: violin, viola, cello, bass, trumpet, trumbone, baritone, tuba, French horn, oboe, English horn, flute, clarinet, bassoon, and percussion (provided the candidate demonstrates an acceptable competence in playing various percussion instruments). The saxophone and accordion are not considered acceptable major performance areas. However, the School of Music will audition a candidate on these instruments if he believes the audition will demonstrate additional evidence of his background.

Transfer Students — consult the paragraphs headed *Admission of Transfer Students* and *Advanced Credit Requirement* under Admission to West Chester.

MUSIC TESTS — B.S. IN MUSIC EDUCATION

(1) Each candidate must demonstrate sufficient background in at least one performing medium which can be considered a major area: piano, organ, voice, or a band or orchestra instrument. The audition must give evidence of mastery of approximately fourth-grade-level material.

(2) All candidates are tested in voice, piano, and sight singing.

(3) A piano, organ, or voice major who has had band or orchestra instrument experience is urged to demonstrate his ability on his instrument.

Note: Each candidate must bring music for the vocal, piano, and instrumental compositions he intends to perform, and should come prepared with a song that will demonstrate vocal range and quality.

MUSIC TESTS —B.A. IN MUSIC

Each candidate must demonstrate acceptable background in at least one performing medium. Those planning to elect the concentration in applied music must give evidence of mastery of approximately fourth-grade-level material.

MUSIC TESTS — B.MUS.

Each candidate must demonstrate an advanced level of proficiency in the major area of performance as evidenced by his ability to perform compositions representing a variety of musical styles. There must be evidence of mastery of approximately sixth-grade-level material.

SCHOOL OF MUSIC DEGREE PROGRAMS

B.S. IN MUSIC EDUCATION

Candidates must satisfactorily complete 128 semester hours, distributed among three areas as follows:

I GENERAL REQUIREMENTS - - - - - - 52 SEMESTER HOURS

1. SKILLS AND COMPETENCIES | 12 semester hours

a. English Composition	6
b. Speech	2
c. Health	2
d. Physical Education (including Eurythmics)	2

2. ARTS AND LETTERS | 18 semester hours

a. Literature	6
b. Art	3
c. Music	6
d. Philosophy	3

3. SOCIAL SCIENCES | 15 semester hours

a. History	9
b. Psychology	3
c. Political Science	3

4. SCIENCE (with Lab) | 7 semester hours

II PROFESSIONAL REQUIREMENTS - - - - 25 SEMESTER HOURS

EdF 100	School and Society
Mus 331	Elementary Music Methods
Mus 332	Secondary Music Methods
Mus 333	Instrumental Methods
EdP 250	Psychology of Learning and Development
Mus 431	Student Teaching, Practicum, and Direction of Student Activities

III Specialized Preparation - - - - - - 51 Semester Hours

Mus 111 Foundations of Music
Mus 112 Theory of Music I
Mus 211 Theory of Music II
Mus 212 Theory of Music III
Mus 311 Theory of Music IV
Mus 113 Sight Singing I
Mus 213 Sight Singing II
Mus 221 Music in Western Civilization I
Mus 321 Music in Western Civilization II
(221-321 credited to General Requirements)

ICo 311 Instrumental Conducting
Major Performing Area (Individual Lessons) 4 - 8 hours
Minor Performing Area (Individual Lessons) 4 - 6 hours
Minor Performing Area (Class) 5 hours
Musical Organization 6 - 8 hours
Electives 2 - 4 hours
(Chosen from list shown below)

A typical sequence of courses may be obtained from the School of Music.

MUSIC ELECTIVES AVAILABLE

Theory and Composition

Mus 312 Counterpoint I
Mus 313 Counterpoint II
Mus 314 Musical Form
Mus 315 Orchestration
Mus 318 Techniques of Twentieth Century Composition
Mus 412 Composition I
Mus 413 Composition II

History and Literature of Music

Mus 322 American Music
Mus 323 Aesthetics and Music Criticism
Mus 421 Literature of the Musical Theater
Mus 422 Musico-Dramatic Production
Mus 224 Keyboard Literature I
Mus 225 Keyboard Literature II
Mus 226 Art Song I
Mus 227 Art Song II
Mus 324 String Literature I
Mus 325 String Literature II
Mus 326 Woodwind Literature I
Mus 327 Woodwind Literature II
Mus 328 Brass Literature I
Mus 329 Brass Literature II
Mus 423 Chamber Music Literature
Mus 424 Development of the Opera
Mus 425 Literature of Orchestral Music
Mus 426 Choral Repertoire I
Mus 427 Choral Repertoire II

Music Education

Mus 334 Teaching Music Appreciation in the Elementary Grades
Mus 335 Choral Materials and Practices
Mus 336 Piano Methods (Class)
Mus 337 Instrumental Techniques and Materials

Applied Music

Musical Organizations, Ensembles, Master Classes, Advanced Conducting (Choral, Instrumental).

BACHELOR OF ARTS

Candidates must satisfactorily complete 128 semester hours, distributed among three areas as follows:

I GENERAL REQUIREMENTS - - - - - - 62 SEMESTER HOURS
(See opening pages, Programs of Study — locate by leafing to black bar on margin.)

The required 6 hours of a foreign language must be through the intermediate (201-202) level.

II MUSIC CONCENTRATION REQUIREMENTS - - - 56 SEMESTER HOURS

Required Core [44 semester hours]

Mus 221 Music in Western Civilization I (credited to General Requirements)
Mus 321 Music in Western Civilization II
Mus 323 Aesthetics and Criticism
Mus 111 Foundations of Music
Mus 112-211-212-311 Theory of Music I-II-III-IV
Mus 312 Counterpoint I
Mus 314 Musical Form
Mus 113 Sight Singing I
Performance Area (Individual Lessons) 8 hours
Minor Performance Area (Individual Lessons) 2 hours
Musical Organization 2 hours
Conducting (Choral or Instrumental) 2 hours
Music History—Literature Elective 3 hours

Required Courses in Major Area of Concentration [12 semester hours]
ELECT EITHER A. OR B.

A. For students electing a concentration area of Applied Music:
Major Performing Area (Individual Lessons) 4 hours
Special Elective Requirement of Concentration Area (under advisement) 8 hours

B. For students electing a concentration area in the combination of Theory – Music History and Literature:

Mus 313 Counterpoint II
Mus 315 Orchestration
Mus 318 Techniques of Twentieth Century Composition
Mus 423 Chamber Music Literature
Mus 424 Development of the Opera
Mus 425 Literature of Orchestral Music

III ELECTIVES - - - - - - - - - - 10 SEMESTER HOURS

These courses may be chosen, under advisement, from other curricula or from the list, *Music Electives Available,* shown under *B.S. in Music Education,* above.

A typical sequence of courses may be obtained from the School of Music.

BACHELOR OF MUSIC

Candidates must satisfactorily complete a minimum of 128 semester hours, distributed among two areas, as follows:

I GENERAL REQUIREMENTS - - - - - 50 SEMESTER HOURS

[1] SKILLS AND COMPETENCIES | 16 semester hours

a. English Composition 6
b. Foreign Languages 6
(Need not be at intermediate level)
c. Health 2
d. Physical Education (including Eurythmics) 2

[2] ARTS AND LETTERS | 17 semester hours

a. English Literature 3
b. English or Language Literature 3
c. Art 3
d. Music 3
e. Aesthetics 2
f. Philosophy 3

[3] SOCIAL SCIENCES | 6 or 9 semester hours

a. History 6
b. Psychology 3
(unless Mathematics, shown below, is chosen)

[4] SCIENCE | 3 or 6 semester hours

a. Physical Science, including Acoustics 3
b. Mathematics 3
(unless Psychology, shown above is chosen)

[5] ELECTIVES | 5 semester hours

(Chosen from all curricula)

II MUSIC CONCENTRATION REQUIREMENTS - - - 78 SEMESTER HOURS

A. Required Core [60 semester hours]

Mus 221 Music in Western Civilization I
(credited to General Requirements)
Mus 321 Music in Western Civilization II
Mus 111 Foundations of Music
Mus 112-211-212-311 Theory of Music I-II-III-IV
Mus 312 Counterpoint I
Mus 314 Musical Form
Mus 113 Sight Singing I
Major Performance Area 16 hours
Minor Performance Area 4 hours
Musical Organization 2 hours
Conducting (Choral or Instrumental) 2 hours
Master Class and/or Ensemble 4 hours
Literature (Applied Major) 4 hours
Music History – Literature Elective 3 hours

B. Electives [18 semester hours]

These courses may be chosen, under advisement, from the list, *Music Electives Available,* shown under *B.S. in Music Education,* above.

Voice majors are required to elect 9 hours of a foreign language. (These language studies may be at any level.)

A typical sequence of courses may be obtained from the School of Music.

COURSE DESCRIPTIONS

Course descriptions are arranged alphabetically by field. Semester hours are indicated by a numeral in parentheses, immediately following a course title.

References to Fall or Spring of odd or even years are determined by the calendar year in effect, rather than the academic year. Thus, *Fall of even years* indicates 1970; *Fall of odd years,* 1971; *Spring of even years,* 1970; and *Spring of odd years,* 1971.

ACCOUNTING See Department of Economics and Business

ANTHROPOLOGY See Department of Sociology and Anthropology

DEPARTMENT OF ART

Daniel L. Kuruna, *Chairman*

Art 101 Fine Arts (3)
Appreciation of the visual arts: painting, sculpture, architecture, graphics, ceramics, and minor arts. *Fall, Spring, Summer.*

Art 201 Arts and Crafts (3)
An opportunity to experiment with craft materials and to be made aware of the great crafts of the world. *Fall and summer.*

Art 202 Art for the Elementary Grades I (3)
A course designed to provide a comprehensive knowledge of the elementary children's art program and to help the student to gain self-confidence through manipulating two- and three- dimensional media. Required of all elementary education majors. *Fall, Spring, Summer.*

Art 203 Art for the Elementary Grades II (3)
An elective course, directly related to Art 202. Continuation of art philosophy and involvement for the student wishing to delve further into the children's art program. *Prerequisite*: Art 202 or permission of instructor. *Spring.*

Art 220 Principles of Design (3)
Studio experimentation with the elements of art principles and their application to art products. *Fall, Spring, Summer.*

Art 301 Oil Painting I (3)
Designed to develop expression in drawing and painting. Pictorial composition and oil painting techniques. *Prerequisite*: Art 320 or permission of instructor. *Fall, Spring, Summer.*

Art 302 Oil Painting II (3)
An extension of Art 301, with exploration in theory and techniques. *Prerequisite*: Art 320 or permission of instructor. *Fall, Spring, Summer.*

Art 303 Watercolor (3)
A basic course in watercolor. Transparent and opaque watercolor techniques; use and limitations of watercolor; watercolor papers and brushes. *Prerequisite*: Art 320 or permission of instructor. *Spring.*

Art 310 Sculpture I (3)
An opportunity to develop an individual expression in relation to three-dimensional design; experience of working in a variety of mediums, such as wood, clay, and stone. Materials treated experimentally to achieve creative interpretation. *Prerequisite*: Art 320 or permission of instructor. *Fall, Spring, Summer.*

Art 311 Sculpture II (3)
A concentrated course offering advanced work in wood, alabaster, welded metal, and Carrara marble. Individual interpretation with emphasis on creative expression. *Prerequisite*: Art 310. *Fall, Spring, Summer.*

Art 312 Sculpture III (3)
Anatomy of the human head and figure; modeling, carving, and casting. *Prerequisite*: Art 311. *Fall and Spring.*

Art 320 Drawing (3)
The beginning course in the exploration of line develops drawing skills in such media as pencil, pen and ink, charcoal, and pastel. Pure contour drawing as well as enriched color drawings of the figure, landscape, and still life. Required of all art majors. *Fall, Spring, Summer.*

Art 330 Ceramics (3)
Experimentation with the plastic characteristics of clay. Understanding of materials, techniques, and processes involved in ceramics. Introduction to coil, slab, mold,

and wheel methods of construction; knowledge of clay bodies, glazes, textures, kiln firing, etc. Emphasis upon design as an organic outgrowth of the ceramic process. *Prerequisite*: Art 320 or permission of instructor. *Fall and Spring.*

Art 340 Graphics (3)

Designed to prepare the student to participate in various graphic processes. Woodcut, engraving, etching, lithography, serigraphy; use of the printing press; paper and inks for each process. *Prerequisite*: Art 320 or permission of the instructor. *Fall and Spring.*

Art 401 Aesthetics: Contemporary Art Forms (3)

Analysis of the meaning behind the "chaotic" multiforms of the 20th century. Comparison of visual expressions with the manifestoes and essays as they parallel innovations in style and ideas. *Fall.*

Art 403 (Also Ant 403) Primitive Art (3)

Analysis of primitive art as determined principally through ritual and myth. Focus of content divided among the following: prehistory to early Ancient Near East; contemporary primitive cultures; psycho-analytical interpretation; and contemporary primitivistic interests of the West. *Fall.*

Art 404 Western Art I: Antiquity and Middle Ages (3)

Analysis of art forms in context of cosmological ideas developed by Hebrews and Greeks culminating in Christian Middle Ages. Emphasis on art object as an integrating cultural force. *Spring.*

Art 405 Western Art II: Renaissance, Mannerism, Baroque (3)

Analysis of art forms in light of Copernican revolution; the disruption of and reorientation to the Classical order and Christian belief. Architecture, painting, sculpture, and other forms, treated as a unitary expression of this tension and attempted resolution. *Fall.*

Art 406 Western Art III: Rococo to Abstraction (3)

Analysis of the major period of anti-classicism and the development of a new (Romantic) sensibility. Special attention to the conflict between the rational-mechanistic and intuitive-organic concepts of the universe and creativity. *Spring.*

Art 407 Oriental Art (3)

Analysis of art forms in the context of Eastern philosophy. Main emphasis on India, China, and Japan. *Spring.*

Art 408 Arts of the United States (3)

Analysis of fine and decorative arts, and folk traditions. Special attention given to conflict between artistic motivation and demands of the market place, between traditional art forms and the need for new forms required by industry. *Fall.*

ASTRONOMY See Department of Physics

DEPARTMENT OF BIOLOGY

James M. McDonnell, *Interim Chairman*

Bio 100 Basic Biological Science (4)

Basic principles of biology. Cell theory, energy metabolism, genetics, development, diversity of life forms, and ecology. Not open to biology majors. Three hours lecture and two hours lab. *Fall, Spring, Summer.*

Bio 111 Botany I (4)

Flowering plants. Structure and life processes of plant cells, leaves, stems, roots, flowers, seeds, and fruits. Economic importance of plants used by man; recognition and classification of seed plants in the immediate environs of the College. Three hours lecture and three hours lab. *Fall and Summer of odd years.*

Bio 112 Botany II (4)

Non-flowering plants. The structure and life processes of selected algae, bacteria, fungi, mosses, ferns, and their allies. Economic importance and health implications of some of these groups. Three hours lecture and three hours lab. *Spring and Summer of even years.*

Bio 141 Zoology I (4)

Representative life forms from each of the invertebrate phyla. Structure, function, origin, development, economic importance, and biological significance. Three hours lecture and three hours lab. *Fall and Summer of odd years.*

Bio 142 Zoology II (4)

Chordates in general, and more particularly the classes of vertebrates. Structure, function, origin, development, economic importance, and biological significance. Three hours lecture and three hours lab. *Spring and Summer of even years.*

Bio 210 Field Botany (3)

Methods of studying plants in their natural surroundings. Use of keys, botanical manuals, and illustrated floras to identify living specimens. Two hours lecture and three hours lab. *Prerequisite*: Bio 100 or Bio 111. *Spring of odd years.*

Bio 241 Field Zoology (3)

Animal life in the surrounding localities. Use of keys, charts, books, and museum specimens to identify and classify various animals. Two hours lecture and three hours lab. *Prerequisite*: Bio 100 or one semester of zoology. *Fall of even years.*

Bio 242 Ornithology (3)

Introduction to the birds of Pennsylvania with emphasis on field identification. Classification, migration, songs, courtship, nesting, care of young, and plumage

changes. Two hours lecture and three hours lab. *Prerequisite*: Bio 100 or one semester of zoology. *Spring and Summer.*

Bio 243 Comparative Anatomy (3)

Comparative anatomical study of organ systems and evolutionary development of the classes of chordates. Two hours lecture and three hours lab. *Prerequisite*: Bio 142. *Spring of odd years.*

Bio 260 Anatomy of Speech and Hearing Mechanisms (4)

For majors in speech pathology and audiology. Emphasis is given to the neurological, respiratory, and skeleto-muscular implications of human anatomy involved in communication skills. Three hours lecture and two hours lab. *Prerequisite*: Bio 100. *Spring.*

Bio 261 Human Anatomy (4)

Structure of man; emphasis on the skeletal and muscular systems. Three hours lecture and two hours lab. *Fall and Summer.*

Bio 262 Human Physiology (4)

Basic human functions with special emphasis on the circulatory, respiratory, and nervous systems. Three hours lecture and two hours lab. *Fall, Spring, Summer.*

Bio 301 Genetics (3)

Laws of heredity in plants, animals, and man. Cell structure, Mendelian inheritance, eugenics, linkage, probability, crossing-over, and random assortment. Two hours lecture and three hours lab. *Prerequisite*: 8 hours of biology. *Fall, Spring, Summer.*

Bio 301E Basic Genetics (3)

A course for non-major students. Mendelian laws of inheritance. Cell structure, cell division, mechanics of monohybrid and dihybrid crosses, linkage, crossing-over, and probability. Practical applications to elementary teaching. Two hours lecture and three hours lab. *Prerequisite*: Bio 100. *Fall.*

Bio 302 Ecology (3)

Relationship between living things and their environment approached through the study of individual ecosystems. The aquatic, the forest, the field and the city ecosystems. Two hours lecture and three hours lab. *Prerequisite*: 8 hours of biology or permission of the instructor. *Fall and Spring.*

Bio 302E Basic Ecology (3)

A course for non-major students. The relationship between living things and their environments. Practical applications to the elementary school program. Two hours lecture and three hours lab. *Prerequisite*: Bio 100. *Fall.*

Bio 310 Bacteriology (3)

Microscopic forms of life commonly encountered in biological work. Culture techniques and physiological processes of microorganisms. Two hours lecture and three hours lab. *Prerequisites*: Bio 111, Bio 112, Bio 141, Bio 142. *Spring.*

Bio 341 Entomology (3)

Insects: their structure, functions, classification, economic importance, and biological significance. Two hours lecture and three hours lab. *Prerequisite*: *Bio* 141. *Spring.*

Bio 341E Basic Entomology (3)

A course for non-major students. Insects commonly found in Pennsylvania. Collection and identification of the larger and more colorful specimens. The use of insects in the elementary school program. Two hours lecture and three hours lab. *Prerequisite*: Bio 100. *Spring and Summer.*

Bio 343 Physiological Chemistry (3)

The chemistry of living processes. Biologically important compounds and their metabolism. Two hours lecture and three hours lab. *Prerequisite*: Che 231. *Fall.*

Bio 344 General Physiology (3)

General principles of physiology. Concept of homeostasis; nature of protoplasm, acid-base balance, bioenergetics, electrophysiology, and enzyme activity. Two hours lecture and three hours lab. *Prerequisites*: Che 231, Bio 141, Bio 142, Mat 105 or equivalent. *Fall and Spring.*

Bio 345 Plant Physiology (3)

Physiological processes of plants. Photosynthesis, respiration, intermediate metabolism, entrance of solutes into the plant, water metabolism, and growth regulators. Two hours lecture and three hours lab. *Prerequisites*: Bio 111, Bio 112, Che 231. *Fall.*

Bio 346 Plant Structure (3)

Microscopic examination of plant cells. Interrelationship of cells, function of cells, and variations of cell anatomy. Two hours lecture and three hours lab. *Prerequisites*: Bio 111, Bio 112. *Spring of even years.*

Bio 351 Embryology (3)

Introduction to principles of animal development; laboratory study of vertebrate embryos. Two hours lecture and three hours lab. *Prerequisites*: Bio 141, Bio 142, Che 104. *Fall.*

Bio 355 Wildlife Conservation (3)

Principles of conservation of plant and animal resources. Collateral reading assignments. *Prerequisite*: Bio 100 or one semester of botany or zoology. *Fall.*

Bio 402 Cytology (3)

Intracellular organization of plant and animal cells, correlated with structure, chemical constitution, and function. Two hours lecture and three hours lab. *Prerequisites*: Bio 111, Bio 112, Bio 141, Bio 142, Che 103, Che 104. *Spring of even years.*

Bio 411 Plant Taxonomy (3)

Principles of taxonomy applied to the practical experience of plant identification. Modern concepts of biosystematics. Two hours lecture and three hours lab. *Prerequisites*: Bio 111, Bio 112. *Spring of odd years.*

Bio 450 Biology Seminar (1)

Reports on special topics and current developments in the biological sciences. *Prerequisite*: 22 hours in biology. *Fall and Spring.*

Bio 452 Special Problems in Biology (1 to 3)

Tutorial course for advanced undergraduate biology majors capable of doing independent study and research on a minor problem. *Prerequisite*: the supervising professor's approval of a proposed problem. *Fall and Spring.*

BUSINESS See Department of Economics and Business

BUSINESS LAW See Department of Economics and Business

DEPARTMENT OF CHEMISTRY

Francis J. Reynolds, *Acting Chairman*

Che 100 Principles of Chemistry (4)

A survey course required of all students in health and physical education. Fundamental laws and theories of chemistry, problem solving, and laboratory techniques. Two hours lecture, one hour recitation, two hours lab. *Fall, Spring, Summer.*

Che 101 Chemistry for Nurses (4)

Topics in general, organic, and biological chemistry of medical and physiological significance. Standard laboratory experiments and clinical techniques. 3 hours lecture and 2 hours lab. *Fall.*

Che 103 General Chemistry I (4)

Basic laws of chemistry, fundamentals of chemical combination, atomic structure, chemical bonding, oxidation-reduction, solutions, electrochemistry, and modern concepts of acids and bases. Two hours lecture, one hour recitation, three hours lab. *Fall and Summer.*

Che 104 General Chemistry II and Qualitative Analysis (4)

A continuation of Che 103. Correlations of chemical principles and their application to modern descriptive chemistry. Laboratory work includes the semi-micro qualitative analysis. Two hours lecture, one hour recitation, three hours lab. *Prerequisite*: Che 103. *Spring and Summer.*

Che 231 Organic Chemistry I (4)
Structures and reactions of organic molecules. Three hours lecture and four hours lab. *Prerequisite*: Che 104. *Fall and Summer.*

Che 232 Organic Chemistry II (4)
A continuation of Che 231. Three hours lecture and four hours lab. *Prerequisite*: Che 231. *Spring and Summer.*

Che 321 Quantitative Analysis (4)
Introduction to the theory and techniques of gravimetric and volumetric methods of analysis. Two hours lecture and six hours lab. *Prerequisite*: Che 104. *Fall.*

Che 324 Instrumental Methods of Analysis (4)
Theory and application of modern analytical instruments. Laboratory devoted to techniques in the use of selected instruments. One hour lecture and six hours lab. *Prerequisite*: Che 321. *Spring.*

Che 341 Physical Chemistry I (4)
Properties of the states of matter, chemical thermodynamics, theory of solutions, and chemical equilibrium. Three hours lecture and three hours lab. *Prerequisites*: Mat 241 (may be concurrent), Che 321, Phy 102. *Fall.*

Che 342 Physical Chemistry II (4)
A continuation of Che 341. Electrochemistry, chemical kinetics, and atomic and molecular structure. Three hours lecture and three hours lab. *Prerequisite*: Che 341. *Spring.*

Che 345 Physical Chemistry for the Life Sciences (4)
Primarily for biology majors. Chemical thermodynamics, equilibria, and kinetics. Emphasis on biochemical systems. Three hours lecture and three hours lab. *Prerequisites*: Che 232, 1 year of calculus. *Fall.*

Che 401 History and Literature of Chemistry (2)
Historical background of chemistry; survey of literature of chemistry; instruction in the use of a modern chemical library. *Prerequisites*: Junior Standing and permission of instructor. *Spring.*

Che 408 Industrial Chemical Processes (3)
Industrial aspects of chemistry including a description of chemical machinery, unit operations and processes, and trips to neighboring industries. *Prerequisite*: Che 231. *Spring of even years.*

Che 410 Advanced Inorganic Chemistry (3)
The application of modern chemical theories to inorganic substances and reactions:

the chemistry of the short and long transition elements. *Prerequisite*: Che 104. *Spring.*

Che 432 Qualitative Organic Analysis (3)

A laboratory course in classical and instrumental methods for identification of organic compounds. One hour lecture and six hours lab. *Prerequisites*: Che 232, Che 321. *Fall.*

Che 441 Introductory Polymer Chemistry (3)

Preparation and properties of principal polymer systems; practical applications. *Prerequisite*: Che 232. *Fall of even years.*

Che 471 Fundamentals of Biochemistry (4)

Structures and chemistry of proteins and nucleic acids; thermodynamics of biochemical reactions; kinetics of enzyme and coenzyme mechanisms. Three hours lecture and three hours lab. *Prerequisite*: Che 232, Che 345 or equivalent. *Spring.*

Che 480 Introduction to Chemical Research (2 to 6)

Information retrieval and chemical research under direct supervision of a staff member. Six to eighteen hours of literature search and chemical research. *Prerequisites*: Senior Standing and permission of instructor. *Fall, Spring, Summer.*

Che 491 Seminar in Chemistry (1)

Oral presentation of papers based upon laboratory or library research. *Spring.*

COMPUTER SCIENCE See Department of Mathematics

EARTH AND SPACE SCIENCE

Seymour S. Greenberg, *Coordinator*

ESS 101 Earth Science (4)

The earth's composition and history; the processes that occur on and within the earth. Three hours lecture and two hours lab. *Fall and Spring.*

ESS 111 General Astronomy (4)

A descriptive course with laboratories in the observatory and planetarium. Three hours lecture and two hours lab. *Spring and Summer.*

ESS 201 Physical Geology (4)

The earth's composition (minerals and rocks) and earth processes (weathering

erosion, volcanism, and diastrophism). Three hours lecture and three hours lab. *Fall.*

ESS 211 Historical Geology (4)

The geologic history of the earth and the evidences for this history. Three hours lecture and three hours lab. *Spring.*

ESS 230 Introduction to Oceanography (4)

A survey of our present knowledge of the waters and floor of the oceans. Three hours lecture and two hours lab. *Fall.*

ESS 240 Introduction to Meteorology (4)

Principles governing the conditions of the earth's atmosphere; how these principles determine weather conditions. Three hours lecture and two hours lab. *Spring.*

ESS 301 Mineralogy and Petrology (3)

Physico-chemical principles used in the classification, identification, and origin of minerals and rocks. Two hours lecture and two hours lab. *Prerequisites*: Che 104, ESS 201. *Fall of odd years.*

ESS 311 Geochemistry (3)

The chemistry of the earth and its relation to geologic processes. Two hours lecture and two hours lab. *Prerequisites*: Che 104, ESS 201. *Spring of odd years.*

ESS 350 Astronomy I (3)

The study of the solar system: history of astronomy, the moon, planetary bodies, the sun, the telescope, and spectroscopy. Two hours lecture and two hours lab. *Prerequisite*: Phy 101. *Fall.*

ESS 351 Astronomy II (3)

A continuation of ESS 350. A study of stellar systems, population of the universe, stellar motions, and galaxies. Two hours lecture and two hours lab. *Prerequisite*: ESS 350 *Spring.*

ESS 415 Introduction to Seismology (3)

An introduction to the use of the seismograph emphasizing its use to detect and record earthquakes. Two hours lecture and two hours lab. *Prerequisite*: ESS 211. *Spring.*

ESS 465 Observatory Principles (3)

Principles and use of the telescope. Specific projects are assigned. Hours by arrangement. *Prerequisite*: ESS 350. *Fall and Spring.*

ESS 475 Introduction to the Planetarium (3)

Principles and use of the planetarium. Specific projects are assigned. Two hours lecture and two hours lab. *Prerequisite*: ESS 350. *Fall and Spring.*

DEPARTMENT OF ECONOMICS AND BUSINESS

Joseph M. Thorson, *Chairman*

ECONOMICS

Eco 231 Principles of Economics I (3)

The principles underlying use and allocation of scarce productive resources. Consumption and production activities. Value, price, and income distribution. Considerations of economic efficiency and welfare. *Fall, Spring, Summer.*

Eco 232 Principles of Economics II (3)

National income and its measurement. The determination of price loads, output, and employment. Money and credit, expenditures, and economic stability. Government fiscal and monetary policy. *Prerequisite*: Eco 231. *Spring and Summer.*

Eco 333 Consumer Economics (3)

The major kinds of economic decisions required of consumers; an evaluation of the social and economic consequences of those decisions. *Prerequisite*: Eco 232. *Fall, Spring, Summer.*

Eco 334 Industrial Relations (3)

Objectives sought and policies followed by labor and management in modern industrial relations in the United States. Collective bargaining processes and the role of government. *Prerequisite*: Eco 232. *Spring.*

Eco 335 Money and Credit (3)

A survey of money, credit, and prices, emphasizing their effects on economic stability. The Federal Reserve System and its effect on credit control. *Prerequisite*: Eco 232. *Spring.*

Eco 336 Business and Government (3)

Background and development of public policies which directly modify the free enterprise economy of the United States. Evaluation of policies which change the nature and extent of competition. *Fall.*

Eco 337 Economic Growth and Development (3)

A survey and critical evaluation of alternative theories of capitalist economic development. Analysis and comparison of alternative public policies applicable to underdeveloped countries and regions. *Prerequisite*: Eco 232. *Spring.*

Eco 338 International Economics (3)

A descriptive, analytical examination of international trade, financial, and other economic relationships. The effects of public policies on these relationships. *Prerequisite*: Eco 232. *Fall.*

Eco 339 Economic Statistics (3)

Introduction to systematic presentation and evaluation of quantitative data. Emphasizes basic statistical measures, statistical inference, and regression, as applied to economic phenomena. *Prerequisites*: Eco 232 and Mat 121. *Fall of even years.*

Eco 340 Intermediate Economic Theory (3)

A continuation and extension of the price-system analysis of Eco 231 and Eco 232. Emphasis on the issue of efficiency in the economy's use of scarce productive resources. *Prerequisite*: Eco 232. *Fall of even years.*

Eco 341 Public Finance (3)

Government's influence on stability of national income. The nature of taxes and expenditures at the various levels of government and their effect on the allocation of resources and the distribution of income. *Prerequisite*: Eco 232. *Fall.*

Eco 342 Business Cycles (3)

The nature of economic fluctuation in modern capitalism. *Prerequisite*: Eco 232. *Fall.*

Eco 343. .Comparative Economics Since 1930 (3)

Basic ideas and economic institutions of socialism, communism, and capitalism in the 20th century; problems created by the emergence of competing systems. *Prerequisite*: Eco 232. *Spring.*

Eco 344 Corporation Finance (3)

The organization and financing of the modern corporation; promotion, capitalization, short-term financing, capital budgeting, distribution of earnings, expansion, consolidation, failure, and reorganization. *Prerequisite*: Eco 232. *Spring of odd years.*

Eco 345 History of Economic Thought (3)

Origins of economic thought and comparison of the major schools of economic doctrine. Current economic and socio-political factors. *Prerequisite*: Eco 232. *Fall of even years.*

Eco 400 Senior Seminar in Economics (3)

Research in economics. Emphasis on methodology, bibliography, and oral and written presentation. Research paper must meet departmental requirements. *Prerequisite*: Eco 340. *Spring.*

Eco 401 Quantitative Analysis (3)

Statistical and mathematical techniques applied to economic situations. Use of empirical data in economic analysis. *Prerequisite*: Eco 339. *Spring of even years.*

Eco 410 Independent Studies in Economics (1 to 3)

Special research projects, reports, readings in economics. Open to seniors and Honors Program students only. *Prerequisite*: department chairman's approval.

ACCOUNTING

BAc 201 Principles of Accounting I (3)
Introducing accounting: double entry procedures, income statement, balance sheet interpretation of accounts, plus proprietorship accounting. *Fall.*

BAc 202 Principles of Accounting II (3)
Accounting for partnerships and corporations. Stress is on concepts rather than bookkeeping. *Prerequisite*: BAc 201. *Spring.*

BAc 301 Intermediate Accounting (3)
Analysis and evaluation of asset, liability, and capital accounts. Problems of income measurement and recognition. *Prerequisite*: BAc 202. *Fall.*

BAc 302 Managerial Accounting (3)
Selected accounting techniques for compiling and interpreting financial data for managerial decision-making. *Prerequisite*: BAc 301. *Spring.*

BAc 303 Cost Accounting (3)
Theory of costs in industry: study, employing the problem method, of job order costs, process costs, standard costs, estimated cost systems and budgets. *Prerequisite*: BAc 202. *Fall.*

BAc 304 Advanced Accounting (3)
Special accounting procedures for installment sales, consignments, agency and branch accounting, consolidations, and receiverships. Statements of affairs. *Prerequisite*: BAc 301. *Spring.*

BAc 400 Senior Seminar in Accounting (3)
Research in accounting. Emphasis on generally accepted accounting principles and written presentation thereof. Research paper must meet departmental requirements. *Prerequisite*: BAc 304. *Spring.*

BAc 401 Auditing I (3)
A study of generally accepted accounting principles and auditing procedures. Preparation of working papers. *Prerequisite*: BAc 304. *Fall.*

BAc 402 Auditing II (3)
Auditing of original records including assets, liabilities and proprietorship items. The income statement. Internal auditing. The audit report. Ethics of the profession. *Prerequisite*: BAc 401. *Spring.*

BAc 403 Federal Taxation I (3)
A complete study of individual and partnership income taxes. *Prerequisite*: BAc 304. *Fall.*

BAc 404 Federal Taxation II (3)
Corporation taxes, with emphasis on current Internal Revenue Service regulations. *Prerequisite*: BAc 403. *Spring.*

BAc 410 Independent Studies in Accounting (1 to 3)

Special research projects, reports, readings in accounting. Open to seniors and Honors Program students only. *Prerequisite*: department chairman's approval.

MANAGEMENT

BAd 301 Business Organization and Management (3)

Introduction to the principles and the theory of business organization and management. Problems of business functions: organization, planning, direction, coordination, and control. *Fall.*

BAd 302 Personnel Management (3)

Problems of personnel policies and practices: recruiting; selection of personnel; testing and training programs; job evaluation, rating, promotion, and transfer; and employee services. *Prerequisite*: BAd 301. *Spring.*

BAd 321 Principles of Marketing (3)

The consumer market, product planning, merchandising and distribution, pricing, and market research. *Fall.*

BAd 322 Advertising and Sales Promotion (3)

The role of advertising and promotion in wholesale and retail marketing. Current campaigns are studied. *Prerequisite*: BAd 321. *Spring.*

BAd 400 Senior Seminar in Management (3)

Research in management. Emphasis on integrating and reinforcing principles studied in earlier courses. Research paper must meet departmental requirements. *Prerequisite*: BAd 401. *Spring.*

BAd 401 Industrial Organization and Management (3)

Principles and theory involved in operating a modern plant; problems of organization, location, layout, equipment, standards, and control of operations. *Prerequisite*: BAd 302. *Fall.*

BAd 402 Organization Behavior and Management (3)

The human aspect in management. Psychological and sociological factors in organization and personnel relations are studied. *Prerequisite*: BAd 302. *Spring.*

BAd 405 Business Policy (3)

Integrating course covering the various functions of business administration. The case method is employed. *Prerequisite*: BAd 401. *Spring.*

BAd 410 Independent Studies in Management (1 to 3)

Special research projects, reports, readings in management. Open to seniors and Honors Program students only. *Prerequisite*: department chairman's approval.

BUSINESS LAW

BLa 201 Business Law I (3)
Fundamental principles of business law; its origin, nature, and administration. The law of contracts, sales, installment sales, insurance, and real property. *Fall.*

BLa 202 Business Law II (3)
Laws of negotiable instruments: nature of contract and agency relationships; employer-employee negotiations; partnership and corporation law. *Prerequisite*: BLa 201. *Spring.*

SCHOOL OF EDUCATION

Harold W. Benda, *Dean*
Michael F. Bannon, *Associate Dean for Graduate Studies*
John A. Lander, *Assistant to the Dean*
Charlotte E. King, *Chairman, Department of Elementary Education*
Walter N. Ridley, *Chairman, Department of Secondary Education*

EXPLANATION OF PREFIXES

Courses given by the School of Education bear a general prefix of Ed followed by a letter which identifies the department or curriculum, as shown here:

A — Atypical (Special Education)
C — Counseling and Guidance
E — Elementary Education
F — Foundations
M — Instructional Media (Audio-Visual)
P — Psychology (Educational)
S — Secondary Education
U — Urban Education

EdF 100 School and Society (3)
An introduction to the nature, function, scope, organization, administration, and support of the public school in American society. *Fall, Spring, Summer.*

EdC 150 Introduction to Guidance and Counseling (3)
An orientation course for classroom teachers. The focus is upon personnel services. *Prerequisite*: Psy 100. *Fall, Spring, Summer.*

NOTE: Students intending to become guidance counselors are referred to the paragraph headed GRADUATE PROGRAM FOR GUIDANCE AND COUNSELING in School of Education.

EdA 241 Psychology of Exceptional Children (3)
Psychology of children with superior or inferior intellectual ability; with defective vision, hearing, or speech; or with emotional, social, or physical handicaps. *Prerequisite*: Psy 100. *Spring and Summer.*

EdA 243 Psychology of the Mentally Retarded (3)

A survey of the psychological development of mentally retarded children. Emphasizes socio-economic, cultural, emotional, and educational factors influencing their behavior. *Prerequisite*: EdA 241. *Fall and Summer.*

EdP 250 Psychology of Learning and Development (3)

A study of learning in relation to the physical, social, emotional, and intellectual aspects of personality. *Prerequisite*: Psy 100. *Fall, Spring, Summer.*

EdP 251 Human Development: Childhood (3)

A study of child growth, development, and behavior, with specific application to early childhood and elementary education. (Formerly Psy 251.) *Prerequisite*: Psy 100. *Fall, Spring, Summer.*

EdM 300 Audio-Visual Education (2)

Techniques, materials, and equipment, and the development of skill in their use in teaching. Class meets three times weekly. *Fall, Spring, Summer.*

EdE 303 Creativity in the Classroom (3)

Exploration of materials and processes of children's perceptions and behavior, aimed at encouraging the development of their critical and creative potentials. *Summer.*

EdS 306 Field Experience in Secondary Education (3)

Practical experience in identifying, analyzing, and defining problems in secondary education through placement of students as teacher-aides in cooperating schools. *Prerequisites*: EdF 100 and EdP 250. *Fall, Spring, Summer.*

EdE 309 Language Arts in the Elementary School (6)

A study of the total language program: oral language (listening and speaking), reading, and written language. Stresses content, sequence, methods, and materials of instruction. Combines the content of EdE 317 and EdE 319, but focuses on the interrelatedness among the language arts. *Fall, Spring, Summer.*

EdE 317 Oral and Written Expression in the Elementary School (3)

A study of the program in oral language (listening and speaking) and written language. Stresses content, sequence, methods, and materials of instruction. *Prerequisites*: department approval and permission of the Dean of Undergraduate Studies. *Evening* and *Summer.*

EdE 319 Reading in the Elementary School (3)

Content, sequence, methods, and materials of instruction in the reading program. *Prerequisite*: department approval and permission of the Dean of Undergraduate Studies. *Evening and Summer.*

EdS 320 Teaching of Reading in the Secondary Schools (3)

The nature of the reading process, the reading program, and reading study skills.

Open only to students preparing to teach at the secondary level. *Fall, Spring, Summer.*

EdE 321 Diagnostic and Remedial Reading (3)

Identifying the problems and needs common to disabled readers. Procedures and materials for dealing with such problems. *Prerequisite*: EdE 309, EdE 319, or EdS 320. *Spring and Summer.*

EdA 330 Teaching the Exceptional Child (3)

A study of atypical children; the selection of learning aids and materials; the development of teaching techniques. *Prerequisite*: Psy 100. *Fall, Spring, Summer.*

EdA 340 The Curriculum and the Gifted Child (3)

The gifted child and means of providing an effective educational program to meet his needs. *Summer.*

EdA 344 Problems in Special Education (2)

Significant problems in the program for the mentally retarded child. The teacher's role in interpreting the special aspects of the program to school personnel, parents, and community. *Spring.*

EdA 348 Curriculum and Methods for the Mentally Retarded (3)

An introduction to methods of teaching mentally retarded children. Emphasis is upon developing classroom programs and the adaptation of instructional materials for use with the handicapped. *Fall and Spring.*

EdA 349 Curriculum and Methods for the Physically Handicapped (3)

An introduction to methods of teaching physically handicapped children. Emphasis is upon developing classroom programs and the adaptation of instructional materials for use with the handicapped. *Fall and Spring.*

EdP 351 Evaluation and Measurement (2)

A survey of testing materials and procedures with emphasis upon interpretation and application of results for pupil guidance purposes. Class meets three times weekly. *Prerequisites*: Psy 100, EdP 250. *Fall, Spring, Summer.*

EdU 360 The Culturally Disadvantaged Child (3)

Backgrounds, problems, and potentialities of the culturally disadvantaged student. *Prerequisites*: Psy 100, EdP 251 or Psy 352. *Fall, Spring, Summer.*

EdU 361 Teaching in Urban Schools (3)

An introduction to urban education by means of observation, lectures, discussions, and related activities. *Fall, Spring, Summer.*

EdE 401 Current Trends in Elementary Education (3)

Basic curriculum principles, the organization and guidance of learning activities, classroom management, the professional responsibilities of teachers, and trends in

elementary education. (Formerly Problems of Elementary Education.) *Prerequisite*: 96 semester hours, including all psychology and professional-education courses listed for the first six semesters. *Fall, Spring, Summer.*

EDE 403 Early Childhood Education I (3)

An introductory course; includes the historical and philosophical background of early education, a survey of current programs, and intensive study of child development in the early years. *Fall and Summer.*

EdE 404 Early Childhood Education II (3)

Methods, materials, and content of educational programs for young children, with emphasis on the practical application of knowledge and theory. *Prerequisite*: EdE 403 or the equivalent. *Spring and Summer.*

EdE 411 Student Teaching and Direction of Student Activities [Elementary Majors] Including Practicum (12)

Observation and participation in teaching and all other activities related to the teacher's work in the elementary school. Students meet once each week in a practicum session. *Prerequisites*: 96 semester hours including psychology and professional-education courses listed for the first six semesters. Students must have at least a 2.0 cumulative average and a 2.0 average in the major field (sophomore and junior courses listed under *Specialized Preparation*). *Fall and Spring.*

EdS 412 Student Teaching and Direction of Student Activities [Secondary] Majors Including Practicum (12)

Observation and participation in teaching and all other activities related to the teacher's work in the area of the student's specialization. *Prerequisites*: 96 semester hours, including all psychology and professional-education courses listed for the first six semesters. Students must have at least a 2.0 cumulative average and a 2.0 average in the major field. *Fall, Spring.*

DEPARTMENT OF ENGLISH

John W. Clokey, *Chairman*

ENGLISH COMPOSITION

Eng 000 English Composition (No credit)

Remedial English. *Fall and Summer.*

Eng 101 English Composition I (3)

Review of grammar and mechanics. Introduction to styles of writing. Compositions, outside reading, use of the library. *Fall, Spring, Summer.*

Eng 102 English Composition II (3)
A continuation of methods of composition: exposition, narration, argumentation, description. Techniques of research paper. *Prerequisite*: Eng 101. *Fall, Spring, Summer.*

Eng 211 Mass Media in Society (3)
Introduction to theory and problems of mass media; their role in American culture. *Fall.*

Eng 212 Principles of Newspaper Production I (2)
A workshop course in newspaper production through lectures and work on student newspaper. *Fall.*

Eng 213 Principles of Newspaper Production II (2)
A continuation of Eng 212. *Spring.*

Eng 214 Principles of Yearbook Production I (2)
All phases of yearbook planning, writing, editing, production, and financing. For yearbook staff members and potential yearbook advisers. *Fall.*

Eng 215 Principles of Yearbook Production II (2)
Practical applications of theories developed in Eng 214. *Prerequisite*: Eng 214. *Spring.*

Eng 216 News Reporting (2)
Principles of news reporting and practice in gathering and writing news for all media. Methods of research, writing, and interview techniques. *Prerequisite*: Eng 211. *Fall.*

Eng 217 Feature Writing (2)
Features in newspapers and magazines. Developing ideas, gathering material, and writing feature articles. Marketing methods for the free lancer. *Prerequisite*: Eng 211. *Spring.*

Eng 218 History of Communications (3)
History and development of newspapers, magazines, motion pictures, radio, and television. *Prerequisite*: Eng 211. *Spring of odd years.*

Eng 230 Business Communication (3)
Oral and written communications, reports, and forms. Duplication processes. *Spring.*

Eng 313 Advanced Writing (3)
Experience in expository, descriptive, narrative, and argumentative techniques. Emphasis on style. *Prerequisites*: Eng 101, Eng 102. *Fall, Spring, Summer.*

Eng 314 History of Language (3)
Review of the major forces and influences on language development. History of the English language. *Fall, Spring, Summer.*

Eng 315 Modern English Grammar (3)
Development of English grammar. A survey of the linguistic influences on the descriptive approach to grammar. *Prerequisites*: Eng 101, Eng 102. *Fall, Spring, Summer.*

Eng 316 Teaching English in Secondary Schools (3)
Review of language-arts requirements in secondary schools. Special reference to grade-placement with adaptation of materials, appraisal of results, and development of programs of study. *Prerequisites*: first and second years' English courses. *Fall, Spring, Summer.*

Eng 317 Old English Language and Literature (3)
An introductory study of the language and a review of selections from the religious and secular poetry. *Prerequisite*: Eng 314. *Fall.*

Eng 318 Middle English Language and Literature (3)
An introductory study of the language and a review of Middle English texts (exclusive of Chaucer). *Prerequisite*: Eng 314. *Spring.*

Eng 319 American English (3)
Trends and developments in American English; recent studies in dialects, usage, and sociolinguistics. *Prerequisites*: Eng 314, Eng 315, or permission of instructor. *Fall, Spring, Summer.*

Eng 320 Linguistics for the Elementary School Teacher (3)
Study of modern English phonology and morphology, regional and social variations in American dialects, and current linguistic concepts of grammar. *Prerequisite*: SpP 201 or SpP 302. *Spring and Summer.*

Eng 321 Creative Writing (3)
Experience in writing fiction, poetry, drama. *Prerequisite*: permission of instructor. *Fall.*

Eng 400 English Honors Seminar (3)
Preference to seniors. *Prerequisite*: permission of instructor. *Fall and Spring.*

LITERATURE

Lit 121 General Literature I (3)
Introduction to Western literature from Homer to Cervantes. *Fall, Spring, Summer.*

Lit 122 General Literature II (3)
A continuation of Lit 121 from Shakespeare to the present. *Prerequisite*: Lit 121. *Fall, Spring, Summer.*

Lit 127 General Literature II (3)
Literature of Continental Europe from Neoclassicism to the present. For English majors and arts and letters majors in lieu of Lit 122. *Fall, Spring, Summer.*

Lit 223 American Literature I (3)
A survey of representative American writings from Colonial times to 1860. Emphasis on democratic ideals and national character. *Fall and Summer.*

Lit 224 American Literature II (3)
A survey of representative American writings from 1860 to the present. *Spring and Summer.*

Lit 225 English Literature I (3)
A survey of English literature from Anglo-Saxon writing to Robert Burns. *Fall and Summer.*

Lit 226 English Literature II (3)
A survey of English literature from Robert Burns to the present. *Spring and Summer.*

Lit 321 Great Books I (3)
A study in depth of six selected writings that have made significant contributions to the development of Western Civilization. *Fall.*

Lit 322 Great Books II (3)
A continuation of the study of the progress of Man in the world, using six additional masterworks. *Spring.*

Lit 329 Classical Mythology (1)
Literature of mythology. *Spring of even years.*

Lit 330 Medieval Literature in England (3)
Medieval English literature (1066-1500). A survey of literature from the Norman Conquest to the accession of the Tudors, emphasizing the popular forms: lyric, romance, metrical tale, fabliau, and ballad. *Prerequisites*: Lit 225, Lit 226. *Spring of even years.*

Lit 331 Chaucer (3)
Canterbury Tales and *Troilus and Criseyde*; literary interpretation. *Prerequisite*: Lit 225. *Spring.*

Lit 332 English Drama to the Renaissance (3)
English drama from the early liturgical tropes to the drama of Shakespeare's contemporaries. *Fall of even years.*

Lit 333 Shakespeare I (3)
Selected comedies, histories, and tragedies. Literary and historical background and Shakespeare's development as a dramatist. *Fall and Summer.*

Lit 334 Shakespeare II (3)
A continuation of Lit 333. *Spring and Summer.*

Lit 335 Eighteenth-Century Literature (3)
A critical consideration of eighteenth-century writers. The struggle between tradition and revolt. *Spring of even years.*

Lit 336 The Romantic Movement (3)
Wordsworth, Coleridge, Byron, Shelley, Keats, and their contemporaries in the light of social background and critical doctrine. *Spring of odd years.*

Lit 337 Victorian Literature (3)
Victorian thought and culture in selections of non-fiction prose and poetry. *Prerequisite*: Lit 226. *Fall of even years.*

Lit 338 Modern Irish Literature (3)
Major literary works of Ireland from 1860 to the present. Moore, Synge, Yeats, Joyce, Shaw, and O'Casey. *Spring of even years.*

Lit 339 Tudor-Stuart Literature (3)
Prose and poetry of the Tudor and Stuart periods. Major writers not covered in individual courses. *Prerequisites*: Lit 225, Lit 226. *Fall of odd years.*

Lit 340 Minority Cultures in American Literature (3)
Study of American ethnic, racial, and national groups in American literature and the contributions of creative literary artists representing these cultures. *Spring of odd years.*

Lit 341 Novel to 1870 (3)
Rise and development of the English novel with selections from the eighteenth century to Hardy and Mark Twain. *Fall of odd years.*

Lit 342 Contemporary Novel (3)
Modern and contemporary movements in fiction. Critical reading and analysis of English and American novels since 1870. *Spring of odd years.*

Lit 343 Contemporary Poetry (3)
English and American poetry since 1870. *Fall of even years.*

Lit 344 Literary Form and Content since World War II (3)
Trends in American and English literature since the close of World War II. The anti-novel, anti-play, pseudo-play, current Theater of the Absurd, current Existentialist literature, neo-novella, theater-piece, happening, and other non-oeuvres. *Spring of even years.*

Lit 345 Criticism (3)
Historical study of literary criticism and aesthetic theory. *Spring of odd years.*

Lit 346 Essay (3)
History and development of the essay. Readings in current periodicals and experience in writing. *Spring of even years.*

Lit 347 Literature of Biography (3)
Historical development of biographical writing. Plutarch, Boswell, Carlyle, Macaulay, Strachey, Bradford, Ludwig, and standard contemporary biographers. *Fall of odd years.*

Lit 348 Short Story (3)
The short story as an aesthetic literary form. *Fall of even years.*

Lit 349 Bible as Literature (3)
Books of the English Bible, especially the King James Version, as a part of English and American Literature. *Spring of even years.*

Lit 350 Children's Literature (3)
Introduction to important children's books, old and new. Techniques for presentation of book material and evaluation of children's books. *Fall, Spring, Summer.*

Lit 351 Modern Drama I (3)
American, British, and Continental drama since 1890. *Fall of odd years.*

Lit 352 Modern Drama II (3)
Works and contributions of no more than five twentieth-century Western playwrights. *Spring of even years.*

Lit 353 Reading Interests of Secondary School Students (3)
A service course. Interests and reading growth of junior and senior high school students. *Fall.*

HUMANITIES

Hum 400 The Contemporary Arts: An Aesthetics Approach (3)
Exploration of basic aesthetics principles appearing simultaneously in contemporary art forms: dance, music, art, literature, drama. A team-teaching effort; open to juniors and seniors of all disciplines on a pass-fail basis. *Fall.*

DEPARTMENT OF FOREIGN LANGUAGES

Alfred D. Roberts, *Chairman*

FRENCH

Fre 101 Elementary French I (3)
Fundamentals of French grammar, syntax, and pronunciation. Introduction to

French culture through easy reading texts. The audio-lingual method is employed at all times. Work in the language laboratory required. *Fall, Spring, Summer.*

Fre 102 Elementary French II (3)

A continuation of Fre 101 with increased emphasis on reading and conversation in French. Language laboratory drill required. *Fall, Spring, Summer.*

Fre 201 Intermediate French I (3)

Intensive review of grammar and syntax. Readings in French literature as a basis for class discussion in French and practice in composition. Language laboratory drill for remedial work only. *Prerequisite*: Fre 102 or equivalent. *Fall, Spring, Summer.*

Fre 202 Intermediate French II (3)

A continuation of Fre 201 with more extensive practice in composition and conversation. *Fall, Spring, Summer.*

Note: *All advanced literature and civilization courses include lectures and discussion in the foreign language, and all student papers and examinations must be written in the foreign language.*

Fre 203 Advanced Grammar and Composition (3)

The more complex grammatical and syntactical structures of the language, with particular attention to stylistics. Practice in writing compositions on a more advanced level, with emphasis on correct usage. *Prerequisite*: Fre 202 or equivalent. *Spring.*

Fre 204 Advanced Oral French (3)

Intensive drill in the oral use of the language to develop proficiency in listening comprehension and speaking. *Prerequisite*: Fre 203 or equivalent. *Spring.*

Fre 205 Survey of Literature I (3)

French literature from its earliest beginnings to the French Revolution. *Prerequisite*: Fre 202 or equivalent. *Fall and Spring.*

Fre 206 Survey of Literature II (3)

French literature from the French Revolution to the present. *Prerequisite*: Fre 202 or equivalent. *Fall and Spring.*

Fre 304 French Civilization (3)

France's political and educational systems, her economic and religious institutions, and her folkways. The arts in France today. *Prerequisite*: Fre 201 or equivalent. *Spring.*

Fre 401 French Literature of the Eighteenth Century (3)

Literary genres in France in the eighteenth century, emphasizing the works of Voltaire, Rousseau, Montesquieu, and Diderot: *Prerequisite*: Fre 205. *Fall of odd years.*

Fre 402 French Literature of the Nineteenth Century (3)
Literary movements of the nineteenth century. *Prerequisite*: Fre 206. *Spring of even years.*

Fre 403 Contemporary French Literature (3)
Major literary works of the twentieth century and philosophico-esthetic movements which contributed to them. *Prerequisite*: Fre 206. *Fall of even years.*

Fre 404 French Classical Drama (3)
Corneille, Racine, and Moliere. *Prerequisite*: Fre 205. *Spring of odd years.*

Fre 410 Honors Seminar (3)
Independent study and research for upper division students who qualify under the Honors Program in foreign languages. *Fall and Spring.*

Fre 411 Honors Seminar (3)
Independent study and research for upper division students who qualify under the Honors Program in foreign languages. Fre 410 is not prerequisite. A student may take Fre 410 or 411 or both. *Fall and Spring.*

JUNIOR YEAR ABROAD PROGRAM

Fre 361-62 Advanced Grammar and Composition (6)
Grammatical and syntactical structure of French. Practical application in free and controlled composition.

Fre 363-64 Advanced French Conversation (6)
Intensive drill in correct usage of contemporary speech patterns. Extensive opportunity for oral self-expression.

Fre 365-66 Phonetics and Translation (6)
The sounds of French through the medium of the international phonetic alphabet. The art of translation. The language laboratory is used for phonetic drill.

Fre 367-68 Contemporary French Civilization (6)
France today—social, political, and economic life; science, technology, literature, art.

Fre 369-70 Literary Studies (6)
"Explication de Textes" from representative writers.

GERMAN

Ger 101 Elementary German I (3)
Fundamentals of German grammar, syntax, and pronunciation. Introduction to German culture through easy reading texts. The audio-lingual method is employed and language laboratory drill is required. *Fall, Spring, Summer.*

Ger 102 Elementary German II (3)
A continuation of Ger 101 with increased emphasis on reading and conversation in German Language laboratory drill. *Fall, Spring, Summer.*

Ger 201 Intermediate German I (3)
Review of grammar and syntax. Readings in German literature as a basis for class discussion in German and practice in composition. Language laboratory drill required for remedial work only. *Prerequisite*: Ger 102 or equivalent. *Fall, Spring, Summer.*

Ger 202 Intermediate German II (3)
A continuation of Ger 201. Extensive practice in composition and conversation. *Fall, Spring, Summer.*

Note: *All advanced literature and civilization courses include lectures and discussion in the foreign languages, and all student papers and examinations must be written in the foreign language.*

Ger 203 Advanced Grammar and Composition (3)
The more complex grammatical and syntactical structures of the language, with particular attention to stylistics. Practice in writing compositions on a more advanced level, with emphasis on correct usage. *Prerequisite*: Ger 202 or equivalent. *Spring.*

Ger 204 Advanced Oral German (3)
Intensive drill in the oral use of the language to develop proficiency in listening comprehension and speaking. *Prerequisite*: Ger 203 or equivalent. *Spring.*

Ger 205 Survey of Literature I (3)
German literature and civilization from their earliest beginnings to 1800. *Prerequisite*: Ger 202 or equivalent. *Fall.*

Ger 206 Survey of Literature II (3)
German literature and civilization from 1800 to the present. *Prerequisite*: Ger 202 or equivalent. *Spring.*

Ger 401 The Age of Goethe (3)
German literary doctrines and masterpieces of the periods of Enlightenment, Storm and Stress, and Classicism. *Prerequisite*: Ger 202 or equivalent. *Fall of odd years.*

Ger 402 Contemporary German Literature (3)
Works of the principal German writers of the twentieth century and the background of events and ideas which have contributed to the development of these writers. *Prerequisite*: Ger 202 or equivalent. *Spring of even years.*

Ger 403 The German Short Story (3)
The German short story from Romanticism to the present. *Prerequisite*: Ger 202 or equivalent. *Fall of even years.*

Ger 404 Goethe (3)
Important works of Goethe; his background and literary development. *Prerequisite*: Ger 205. *Spring of odd years.*

Ger 405 Scientific German (3)
Review of syntax, readings, and translation in general science and basic technical fields. *Prerequisite*: Ger 102 or equivalent. *Fall of odd years.*

Ger 406 German Civilization (3)
The evolution of Germany's social, political, and economic institutions. An analysis of the major contributions of German civilization to Western culture. *Spring of even years.*

Ger 410 Honors Seminar (3)
Independent study and research for upper division students who qualify under the Honors Program in foreign languages. *Fall and Spring.*

Ger 411 Honors Seminar (3)
Independent study and research for upper division students who qualify under the Honors Program in foreign languages. Ger 410 is not prerequisite. A student may take Ger 410 or 411 or both. *Fall and Spring.*

GREEK

Gre 101 Beginning Greek I (3)
For students who have had no previous Greek. Forms, syntax, and idioms of Homeric Greek. *Fall.*

Gre 102 Beginning Greek II (3)
A continuation of Gre 101. Reading of Homer's *Iliad,* Book I, followed by an introduction to Attic Greek. Records and tapes in Greek to supplement class work. *Spring.*

Gre 201 Intermediate Greek I (3)
Review of Attic grammar and readings in Attic authors. Introduction to the *koine* and readings in New Testament Greek. *Fall.*

Gre 202 Intermediate Greek II (3)
Introduction to Greek Tragedy. Sophocles' *Antigone* and Euripides' *Medea* are read and analyzed. *Spring.*

ITALIAN

Ita 101 Elementary Italian I (3)
Introduction, through the audio-lingual method, to the sounds of Italian. Thorough and intensive drill, both in class and in the language laboratory, with pronunciation, intonation, and basic linguistic patterns. Introduction to Italian culture by means of basic dialogues and easy reading texts. *Fall.*

Ita 102 Elementary Italian II (3)
A continuation of Ita 101 with greater emphasis on structural analysis. *Spring.*

Ita 201 Intermediate Italian I (3)
Review of Italian grammar and syntax. Introduction to Italian literature through short readings of intermediate difficulty. Composition and conversation in Italian based on reading assignments. Language laboratory for remedial drill. *Fall.*

Ita 202 Intermediate Italian II (3)
A continuation of Ita 201 with increased emphasis on free composition and conversation. *Spring.*

LATIN

Lat 101 Beginning Latin I (3)
For students who have had no previous Latin. Forms, syntax, and idioms of classical Latin. Selected readings. *Fall.*

Lat 102 Beginning Latin II (3)
A continuation of Lat 101. Records and tapes in Latin to supplement class work. *Spring.*

Lat 201 Cicero (3)
Selections from the orations, letters, and essays. *Prerequisite*: Lat 101-102, or two years of secondary school Latin. *Fall.*

Lat 202 Vergil (3)
Reading and analysis of celebrated portions of the *Aeneid.* The nature of Latin epic poetry. *Prerequisite*: Lat 201, or three years of secondary school Latin.

Note: *Prerequisite to courses 301-406: Latin 202, or four years of secondary school Latin.*

Lat 301 Teaching of Latin (3)
Introduction to the problems, methods, and materials involved in the teaching of Latin. *Fall.*

Lat 302 The Lyric Poets (3)
Latin lyric poetry through readings in Catullus and the Odes and Epodes of Horace. Practice in the composition of lyric poetry. *Fall of even years.*

Lat 303 Advanced Latin Prose Composition (3)
Required of Latin majors; open to other students accepted by the instructor. The complex syntactical structures of Latin and of classical style. Translations of English prose into classical Latin. *Fall of even years.*

Lat 304 The Elegiac Poets (3)
Latin elegiac poetry through readings in Ovid, Tibullus, Lygdamas, Sulpicia, and Propertius. Practice in the composition of elegiac poetry. *Spring of odd years.*

Lat 305 Reading Course (3)
Open to Latin majors only. Area and content to be determined by students' needs.

Lat 306 Roman Historians (3)
Introduction to Roman historiography. Readings in Livy, Sallust, and Tacitus. *Spring of even years.*

Lat 401 Roman Drama (3)
Origins and development of Roman drama. Selected plays of Plautus, Terence, and Seneca. *Spring of even years.*

Lat 402 Roman Philosophy (3)
Introduction to Greek and Roman philosophy. Readings in Cicero, *Tusculan Disputations,* and Lucretius, *De Rerum Natura.* Cicero presents mainly the Platonic view; Lucretius argues in epic verse for Epicurus' creed. *Fall of odd years.*

Lat 403 Roman Satire (3)
Origins and development of Roman satire. Readings in Horace, Persius, and Juvenal. *Fall of odd years.*

Lat 404 The Latin Novel (3)
Readings in Petronius, *Satyricon,* and Apuleius, *The Golden Ass.* Lectures and discussion of the emergence of the novel as a literary form. *Spring of odd years.*

Lat 405 Medieval Latin (3)
Prose and poetry from the fourth to the seventeenth centuries. *Fall of even years.*

Lat 406 Tutorial Course (3)
Required of majors in Latin or Classics; open to other students accepted by the instructor. Introduction to the history of the alphabet; principles of historical and comparative linguistics, especially as applied to Greek and Latin; and history of the Latin language as seen in ancient authors and inscriptions.

RUSSIAN

Rus 101 Beginning Russian I (3)
Fundamentals of Russian grammar, syntax, and pronunciation. Extensive drill in the language laboratory is required. One class hour per week in the language laboratory. *Fall.*

Rus 102 Beginning Russian II (3)
A continuation of Rus 101 with increased emphasis on reading and conversation in Russian. One class hour per week in the language laboratory. *Spring.*

Rus 201 Intermediate Russian I (3)
Grammar review with readings in Russian literature as a basis for class discussion in Russian and practice in composition. Language laboratory drill recommended for those needing further work in pronunciation and intonation. *Prerequisite*: Rus 102 or the equivalent. *Fall.*

Rus 202 Intermediate Russian II (3)
A continuation of Rus 201 with more extensive practice in composition and conversation. *Spring.*

Note: *All advanced literature and civilization courses include lectures and discussion in the foreign language, and all student papers and examinations must be written in the foreign language.*

Rus 203 Advanced Grammar and Composition (3)
The more complex grammatical and syntactical structure of the language, with particular attention to stylistics. Practice in writing compositions on a more advanced level, with emphasis on correct usage. *Prerequisite*: Rus 202 or equivalent. *Spring.*

Rus 204 Advanced Oral Russian (3)
Intensive drill in the oral use of the language to develop proficiency in listening comprehension and speaking. *Prerequisite*: Rus 203 or equivalent. *Spring.*

Rus 205 Advanced Readings in Russian Literature I (3)
Works of Pushkin, Lermontov, Turgenev, and Gorki will be read and analyzed. *Prerequisite*: Rus 202 or the equivalent. *Fall.*

Rus 206 Advanced Readings in Russian Literature II (3)
A continuation of Rus 205. *Spring.*

Rus 303 Scientific Russian I (3)
Review of syntax; reading and translation in general science and basic technical fields. *Prerequisite*: Rus 202 or equivalent. *Fall of odd years.*

Rus 304 Scientific Russian II (3)
A continuation of Rus 303. *Spring of even years.*

Rus 401 The Russian Novel (3)
The Russian novel and literary trends of the nineteenth and twentieth centuries. *Prerequisite*: Rus 205 or equivalent. *Fall of even years.*

Rus 402 The Russian Drama (3)
Works of the major Russian dramatists of the nineteenth and twentieth centuries. *Prerequisite*: Rus 205 or equivalent. *Spring of odd years.*

Rus 410 Honors Seminar (3)
Independent study and research for upper division students who qualify under the Honors Program in foreign languages. *Fall and Spring.*

Rus 411 Honors Seminar (3)
Independent study and research for upper division students who qualify under the Honors Program in foreign languages. Rus 410 is not prerequisite. A student may take Rus 410 or 411 or both. *Fall and Spring.*

SPANISH

Spa 101 Elementary Spanish I (3)
Fundamentals of Spanish grammar, syntax, and pronunciation from the oral-aural point of view. Introduction to Spanish culture through easy reading texts. One class a week in the language laboratory for work on pattern drills. *Fall, Spring, Summer.*

Spa 102 Elementary Spanish II (3)
A continuation of Spa 101 with emphasis on reading and conversation in Spanish with the aim of increasing oral-aural skills in the language. Language laboratory class once a week. *Fall, Spring, Summer.*

Spa 201 Intermediate Spanish I (3)
Review of Spanish grammar and syntax. Readings in Spanish literature as a basis for class discussion in Spanish and practice in composition. Language laboratory drill recommended for remedial work where needed. *Prerequisite:* Spa 102 or equivalent. *Fall, Spring, Summer.*

Spa 202 Intermediate Spanish II (3)
A continuation of Spa 201 with extensive practice in composition and conversation on a more advanced level. *Fall, Spring, Summer.*

Note: *All advanced literature and civilization courses include lectures and discussion in the foreign language, and all student papers and examinations must be written in the foreign language.*

Spa 203 Advanced Grammar and Composition (3)
The more complex grammatical and syntactical structures of the language, with particular attention to stylistics. Practice in writing compositions on a more

advanced level, with emphasis on correct usage. *Prerequisite*: Spa 202 or equivalent. *Spring.*

Spa 204 Advanced Oral Spanish (3)
Intensive drill in the oral use of the language to develop proficiency in listening comprehension and speaking. *Prerequisite*: Spa 203 or equivalent. *Spring.*

Spa 205 Survey of Literature [Golden Age] (3)
Spanish literature from its earliest beginning to the eighteenth century with special emphasis on the literature of the Golden Age. *Prerequisite*: Spa 202 or equivalent. *Fall and Spring.*

Spa 206 Survey of Literature [since 1800] (3)
Spanish literature from 1800 to the present. *Prerequisite*: Spa 202 or equivalent. *Fall and Spring.*

Spa 304 Spanish Civilization (3)
Major contributions of Spain from an eclectic point of view. Cultural, geographical, literary, philosophical, and artistic manifestations of the Hispanic world are studied, appreciated, and evaluated. *Prerequisite*: Spa 201 or equivalent. *Spring.*

Spa 401 Spanish-American Literature (3)
Spanish-American literature and the present trends. *Prerequisite*: Spa 202 or equivalent. *Fall of odd years.*

Spa 402 Contemporary Spanish Literature (3)
Contemporary Spanish literature against the background of twentieth century literary trends. *Prerequisite*: Spa 202 or equivalent. *Spring of even years.*

Spa 403 The Spanish "Comedia" (3)
The Spanish "Comedia," with the major trends of the Spanish Golden Age. *Prerequisite*: Spa 205. *Fall of even years.*

Spa 404 The Picaresque Novel (3)
The picaresque novel in its uniquely Spanish aspects. Lazarillo de Tormes, Guzman de Alfarache, and others. *Prerequisite*: Spa 205. *Spring of odd years.*

Spa 410 Honors Seminar (3)
Independent study and research for upper division students who qualify under the Honors Program in foreign languages. *Fall and Spring.*

Spa 411 Honors Seminar (3)
Independent study and research for upper division students who qualify under the Honors Program in foreign languages. Spa 410 is not prerequisite. A student may take Spa 410 or 411 or both. *Fall and Spring.*

COURSES COMMON TO ALL LANGUAGES

Lan 301 Teaching of Modern Languages (3)
Problems, methods, and materials of the teaching of modern languages. Observation of foreign language classes in session. *Prerequisite*: completion of intermediate level in the chosen foreign language. *Fall.*

Lan 302 Applied Linguistics (3)
Methods of modern linguistic science as applicable to the study and teaching of the major European languages. Principles of structural analysis of living languages and historical linguistics. *Spring.*

Lan 303 Foreign Languages in the Elementary School (3)
Techniques and materials used in teaching foreign languages in the elementary school. Practice in the application of these techniques and observation of foreign-language classes in the Laboratory School. *Prerequisite*: completion of intermediate level in the chosen foreign language. *Fall.*

Lan 340 (Also Ant 340) Introduction to Linguistics (3)
Introduction to phonological, morphological, and syntactical language analysis; historical reconstruction; language classification and lexico-statistical dating. Designed for other students as well as language and anthropology majors. *Fall.*

Lan 380 (Also Ant 380) Language and Culture (3)
Language as an aspect of culture; linguistic-perceptual-cognitive categories; social and psychological aspects of language. *Prerequisite*: Lan 340 or permission of instructor. *Spring.*

FRENCH See Department of Foreign Languages

DEPARTMENT OF GEOGRAPHY

Alvin S. Keinard, *Chairman*

Geo 101 World Geography (3)
Varied patterns of the natural environment throughout the world. Man's economic and cultural responses to environmental situations. *Fall, Spring, Summer.*

Geo 200 Geography of World Cultures (3)
An examination of selected geographic areas, representing different stages of development, in the contemporaneous world. Emphasis is on environmental adaptation and the resultant problems and prospects confronting the human occupants of these areas. *Prerequisite*: Geo 101. *Fall, Spring, Summer.*

Geo 201 Conservation of Natural Resources (3)
The wise use of our natural resources and the problems of resource management. *Prerequisite*: Geo 101. *Spring and Summer.*

Geo 202 Geography of the United States and Canada (3)
A regional study of the United States and Canada; man's adjustment to his physical environment. Political adjustments to the geographic environments and relations between the two countries. *Prerequisite*: Geo 101. *Fall, Spring, Summer.*

Geo 203 Economic Geography (3)
Modern trends and problems of the economic growth of the United States. The changing wants and needs of man in regard to agriculture, industry, and world resources. *Prerequisite*: Geo 101. *Fall, Spring, Summer.*

Geo 204 Geography of Pennsylvania (3)
A regional study of Pennsylvania; man's cultural and economic responses to environmental factors. Urbanization, people, agriculture, landforms, resources, and industries. *Fall, Spring, Summer.*

Geo 205 Geomorphology (3)
Dynamic constructive and gradational forces which have shaped the present landforms and are constantly reshaping and modifying them. Interpretation of geologic and topographic maps; field studies. Field trips required. *Prerequisite*: Geo 101. *Fall.*

Geo 206 Meteorology: An Introduction to Climate (3)
A basic study of the atmosphere. Analysis of the laws and principles of atmospheric change in relation to weather and climate. Practical experience with weather instruments, weather maps, and data. *Prerequisite*: Geo 101. *Spring of even years.*

Geo 207 Geography of Europe (3)
A regional study of Europe. Geographic relationships underlying land uses, international problems, and boundary disputes. The Soviet Union is not included. *Prerequisite*: Geo 101. *Fall and Summer.*

Geo 208 Geography of Latin America (3)
A regional study of Middle and South America; man's responses to environmental factors such as climate, landforms, and resources. *Prerequisite*: Geo 101. *Fall and Summer.*

Geo 209 The United States in its Global Relationships (3)
The strategic role of the United States in world relationships, both political and economic, viewed from the vantage point of America's geographic characteristics; influences of American policies on the whole of the globe. *Prerequisite*: Geo 101. *Offered as needed.*

Geo 210 Geographic Influences in American History (3)
Geographic characteristics which bore prominently on the discovery and colonization of America and the progressive development of the United States up to the twentieth century. *Fall, Spring, Summer.*

Geo 211 Map Appreciation and Interpretation (3)
The appreciation and understanding of maps. Reading and interpreting large-scale topographic maps; special purpose maps. *Fall and Summer.*

Geo 212 The Geography of Modern Industrial and Commercial Activity (3)
Economic geography: marketing, industrial trends, locational theory, trading area patterns, and developing aspects of the commercial world in the perspective of geographic factors. *Offered as needed.*

Geo 300 Physical Geography (3)
Basic principles of physical geography in relation to the total geographic concept. The total earth physical environment. *Prerequisite*: Geo 101. *Spring and Summer.*

Geo 301 Introduction to Physical Geology (3)
The earth's crust; materials and structures of landforms. Required field work, study of rocks and minerals, topographic and geologic maps. Field trips required. *Prerequisite*: Geo 101. *Offered as needed.*

Geo 302 Climatology (3)
Climatic variations of the earth and their classification into regional types. Biological soil and cultural relationships of the climatic types. *Prerequisite*: Geo 101. *Spring of odd years.*

Geo 303 Cartography (3)
Utilizing modern map-making techniques, the geography major develops and constructs maps and other graphic tools which serve special purposes in teaching and research. Four hours lecture. *Fall.*

Geo 304 Geography of Asia (3)
Southwestern and Southeastern Asia; the cultural aspects of race, religion, economic and political factors. *Prerequisite*: Geo 101. *Spring.*

Geo 305 Geography of the Far East (3)
A detailed study of China and Japan. Other areas included: Korea, the Philippine Islands, Taiwan, and the Outer Pacific Islands. *Prerequisite*: Geo 101. *Fall.*

Geo 306 Geography of Africa (3)
Historic and present-day aspects of race, religion, tribal organizations, and other elements of African life as geography relates to them. *Prerequisite*: Geo 101. *Fall.*

Geo 307 Geography of the U. S. S. R. (3)
European and Asiatic U.S.S.R. Positive and negative factors in the geography of Russia in relation to its strength and weaknesses as a world power. *Prerequisite*: Geo 101. *Spring and Summer.*

Geo 308 Trade and Transportation (3)

International trade and transportation systems for this trade. Economic trading blocs. *Prerequisite*: Geo 101. *One semester of alternate years.*

Geo 309 World Problems in Geography (3)

Major world problems in terms of their geographic settings. Problems of population growth, economically underdeveloped nations, control and development of natural resources, keeping the peace, etc. *Prerequisite*: Geo 101. *Fall and Summer.*

Geo 310 Geography Field Study Methods (3)

Introduction to the methods and materials of field research in geography. Field trips required. *Prerequisite*: Geo 101. *Summer.*

Geo 311 Teaching Geography in Secondary Schools (3)

Modern techniques of teaching geography, current curricula, and the tools of geography. Experience in teaching geography lessons and classroom observance are required. *Prerequisites*: Geo 101 and six additional geography credits. *Spring.*

Geo 313 Geography of Population (3)

Regional variations in the distribution of man. Numbers, past and present, to demographic characteristics of the population and migrations of populations. *Prerequisite*: Geo 101. *Spring.*

Geo 314 Geography of the United States and Pennsylvania (3)

A regional study of the United States; especially Pennsylvania. Physical factors such as climate, relief, vegetation, soils, and resources explain distribution of population, land use, trade, etc. *Prerequisite*: Geo 101. *Summer.*

Geo 315 Aerial Photographic Interpretation (3)

Identifying objects and conditions in aerial photography; determining their significance. Both physical and cultural qualities are emphasized. *Prerequisite*: Geo 211 or consent of instructor. *Offered as needed.*

Geo 316 Political and Military Geography of the United States in the Twentieth Century

An introduction to basic political geography with emphasis on the geography of World War II and geographic aspects of more recent conflicts affecting the United States. *Prerequisite*: Geo 101. *Offered as needed.*

Geo 400 Senior Seminar in Geography (3)

Research in geography. Methodology, bibliography, and presentation, both written and oral. The research paper for the seminar must be acceptable as a required departmental Senior Research Paper. Required of all geography majors. *Fall.*

Geo 410 Independent Studies in Geography (1 to 3)

Special research projects, reports, readings in geography. Open to seniors and Honors Program students only. *Prerequisite*: permission of department chairman.

Geo 412 Geography of Australia and Associated Islands (3)

Native and introduced flora and fauna in and near Australia. The importance of agriculture and the growing industrialization of Australia. *Prerequisite*: Geo 101. *Offered as needed.*

Geo 414 Urban and Regional Planning (3)

The regional method of analysis of the problems of urban and regional planning. Systems, housing, recreation, industry, and commerce. *Prerequisite*: Geo 101. *Spring.*

Geo 415 Geography Area Field Study (3, 6, or 9)

Field courses for travel and study in the United States and foreign countries. Analysis of field study findings compiled into term reports. Costs vary with each course offering. Admission by approval of department chairman. *Summer.*

Geo 416 Seminar in Special Studies in Geography (2 to 3)

A specialized course in a phase of geography, taught by a specialist in the area of study. For seniors (and, in some cases, juniors). Admission by approval of department chairman. *Fall.*

GEOLOGY See Earth and Space Science

GREEK See Department of Foreign Languages

GERMAN See Department of Foreign Languages

SCHOOL OF HEALTH AND PHYSICAL EDUCATION

Norman L. Sheets, *Dean*
Edwin L. Youmans, *Associate Dean for Graduate Studies*
Edwin B. Cottrell, *Assistant to the Dean*
Walter E. Funk, *Chairman, Department of Health Education*
Melvin M. Lorback, *Chairman, Department of Physical Education*

DEPARTMENT OF HEALTH EDUCATION

REQUIRED COURSES FOR NON-MAJOR STUDENTS

Required for All Curricula

HEd 150 Health (2 hrs. 2 cr.)
Health needs of the college student are discussed. *Fall, Spring, Summer.*

Required for Elementary Education Majors

HEd 350 Health for the Elementary Grades (3 hrs. 3 cr.)
Principles and procedures for meeting the health needs of the child in the school, home, and community. *Fall, Spring, Summer.*

Elective Courses Open to All Curricula

HEd 353 First Aid for Teachers (2 hrs. 2 cr.)
Advanced first aid and techniques for teaching first aid. Successful completion of this course may qualify the student as a first-aid instructor. *Spring.*

HEd 354 Seminar in Health Education (3 hrs. 3 cr.)
A course for health and physical education seniors. Basic concepts in health education, with emphasis on readings, discussions, and projects. *Prerequisite*: completion of the student-teaching experience. *Spring.*

HEd 451 Community and School Health Education Workshop (3 hrs. 3 cr.)
A study of common problems in health education for the home, community, and school. *Summer.*

REQUIRED COURSES FOR HEALTH AND PHYSICAL EDUCATION MAJORS

HEd 151 Personal Health (3 hrs. 3 cr.)
Principles and practices of personal health, with attention to desirable attitudes for healthful living. *Fall, Spring, Summer.*

HEd 153 Community Health (2 hrs. 2 cr.)
Principles and problems of community health. Community health problems and health services on the local, state, national, and international levels are considered. *Fall and Spring.*

HEd 252 First Aid and Care and Prevention of Athletic Injuries (3 hrs. 2 cr.)
Administering first aid in the school situation; preventing injury during sports activities; care for the injured. *Fall and Spring.*

HEd 253 The School Health Program (3 hrs. 2 cr.)
School health services, school environment, and health instruction. Ways of promoting school-community cooperation in health areas. *Fall and Spring.*

HEd 351 Human Development (3 hrs. 3 cr.)
A study of growth from conception through adolescence. Methods of studying pupils, influences on growth, and characteristic development at various age levels. Implications for the health and physical education program are stressed. *Fall and Spring.*

HEd 352 Methods and Materials in Health Education (3 hrs. 2 cr.)
A comprehensive study of school health instruction. Files of curriculum materials and instructional aids are completed in this course as a prerequisite to student teaching. *Fall and Spring.*

DEPARTMENT OF PHYSICAL EDUCATION

REQUIRED COURSES FOR NON-MAJOR STUDENTS

Required for All Curricula

PEd 101 Survey of Physical Education I (2 hrs. 1 cr.)
An overview of physical education. Activities, such as tennis, badminton, and volleyball, with carry-over value; athletic-type games; current methods of physical conditioning, training, and weight control. *Fall and Spring.*

Required for Elementary Education Majors

PEd 201 Practice and Theory in Elementary Physical Education (2 hrs. 1 cr.)
The basic organization of the physical education program in elementary schools. Principles in teaching games and other recreational activities. Planning and directing the physical education period in the elementary school program. *Fall and Spring.*

PEd 202 Dance Activities in the Elementary Program (2 hrs. 1 cr.)
Fundamental rhythms, creative rhythms, singing games, and folk dances on the elementary level. Students acquire skills in these areas and are given leadership experience in class situations. *Fall and Spring.*

Required for Music Majors

PEd 107 Eurythmics (2 hrs. 1 cr.)
Survey of dance with experience in fundamental locomotor and axial movement. Specific dance forms such as square, round, contra, folk, and social dancing. *Fall and Spring.*

Required for Secondary Education and Arts and Sciences Majors

PEd 102 Survey of Physical Education II (2 hrs. 1 cr.)
A survey of dance, including square, line, contra, mixers, round, folk, and social dances. Basic and advanced instruction in aquatic activities, with emphasis on water safety. *Fall and Spring.*

ELECTIVE COURSES OPEN TO ALL CURRICULA

PEd 107 Eurythmics (2 hrs. 1 cr.)
See description above.

PEd 201 Practice and Theory in Elementary Physical Education (2 hrs. 1 cr.)
See description above.

PEd 202 Dance Activities in the Elementary Program (2 hrs. 1 cr.)
See description above.

PEd 312 Special Events in Physical Education (2 hrs. 1 cr.)
Planning and executing special events such as May Days, festivals, sports days, assembly programs, and field days. *Fall.*

PEd 331 Aquatic Leadership (3 hrs. 2 cr.)
Leadership procedures in aquatic activities for schools and school camps. Swimming strokes and life saving techniques are analyzed. The student has an opportunity to qualify as a waterfront safety instructor. *Fall and Spring.*

PEd 341 Modern Dance I (2 hrs. 1 cr.)
Techniques and fundamentals of modern dance on a beginner level. Methods and materials to prepare teachers for a public school program. *Fall.*

PEd 342 Modern Dance II (2 hrs. 2 cr.)
Intermediate and advanced technique, choreography, and rhythmic training. Experience in organizing and participating in dance concerts. *Fall and Spring.*

PEd 343 Principles of Choreography (2 hrs. 2 cr.)
The art of dance composition. Basic elements of space, rhythm, and motion dynamics. Students design original movement, progressing from simple to complex solo and group forms. *Fall.*

PEd 344 Dance in Theater Arts (2 hrs. 2 cr.)
Dance as a performing art. Past and contemporary theatrical dance forms; accompaniment, costume, sets, and lighting. Students stage complete theatrical productions. *Fall.*

PEd 345 Advanced Folk Dance (2 hrs. 2 cr.)
Review of all basic folk dance steps and their use in advanced folk dance. Study of folk dance as a vivid picture of national life. Opportunities for staging the folk dance. *Spring.*

PEd 355 Kinesiology (2 hrs. 2 cr.)
Fundamentals of human movement; application to physical education skills. *Fall and Spring.*

PEd 367 Arts and Crafts in Recreation (3 hrs. 3 cr.)
Theoretical and practical applications of arts and crafts as recreative outlets for all age groups. Arts and crafts materials customarily found in school, camp, and community recreation programs are used. *Fall and Spring.*

PEd 370 Camping and Outing (3 hrs. 3 cr.)
Theory and practice in camping and outing programs, approached from viewpoints of the camper, the counselor, the supervisor, the specialist, and the director. *Fall.*

PEd 375 Officiating Women's Sports (3 hrs. 2 cr.)
Ethics and techniques of officiating at secondary school and college games. An official's rating in at least one sport may be acquired. *Fall.*

PEd 377 Theories and Practices of Training and Conditioning (2 hrs. 2 cr.)
Theory of sports medicine; administration of an athletic training program including medical coverage, facilities, equipment, and diet; prevention and care of common injuries. *Prerequisite*: HEd 252. *Spring.*

PEd 378 Facilities and Equipment in Health and Physical Education (2 hrs. 2 cr.)
Principles and procedures of planning. Practical and functional design of indoor and outdoor areas and facilities. Attention is given to the Department of Public Instruction's regulations governing planning for public school facilities. *Fall.*

PEd 390 Physical Disabilities of Childhood (3 hrs. 2 cr.)
A course designed for students in special education. Common orthopedic and neurological disabilities of childhood, especially chronic deviations. Emphasis is on understanding the medical aspects and problems of rehabilitation. *Fall and Summer.*

PEd 391 Psychology of the Physically Handicapped (3 hrs. 3 cr.)
A course designed for students in special education. Psychology applied to physical disability; personal and cultural implications of handicaps; the psychodynamics of disability. *Spring.*

PEd 392 Introduction to Physical Therapy (2 hrs. 2 cr.)
An introductory course for men and women planning to enter a graduate school of physical therapy. Emphasis is on basic biological and physical science pertinent to physical therapy. *Prerequisites*: Bio 261, Bio 262. *Fall.*

PEd 462 Principles of Recreation (2 hrs. 2 cr.)
Historical background of the play movement; theoretical explanations of play; the need for it in modern life and its place in education and recreation. Methods of recreation leadership. *Fall and Spring.*

PEd 464 Supervised Camping Leadership (3 cr.)
A program in camp leadership at children's summer camps. This field experience aids the student's professional growth through work with children in the informal atmosphere of camp. *Prerequisite*: consent of instructor. *Summer.*

PEd 465 Elementary Physical Education Curriculum (3 hrs. 3 cr.)
Constructing and evaluating the curriculum in elementary physical education. Progression and continuity, along with developmental needs and interests of children, are considered. *Fall.*

PEd 466 Self-Testing Activities in Elementary School Physical Education (2 hrs. 2 cr.)
For elementary education majors. Supplements PEd 201 and PEd 202. Stunts, tumbling, apparatus, mimetics, and sports skills. Testing procedures for determining physical fitness and motor skills. *Spring.*

PEd 481 Introduction to Safety Education (3 hrs. 3 cr.)
A survey course in safety education. Emphasis is on safety problems in school, industry, community, and traffic. Legal responsibilities of the teacher for maintaining a safe environment are considered. *Fall and Summer.*

PEd 482 Driver Education and Training (3 hrs. 3 cr.)
Designed for prospective teachers of driver education in the secondary school. Techniques of teaching in the automobile; assessment of the beginning driver's ability to operate a motor vehicle safely; driving skill tests; traffic laws of the Commonwealth. *Summer.*

PEd 483 Psychology of Accident Prevention (3 hrs. 3 cr.)
Psychological causes of accidents are examined. Emphasis is on ways to increase a person's ability to live safely. *Spring and Summer.*

PEd 484 Methods and Materials of Safety Education (3 hrs. 3 cr.)
A study of the total safety program, with emphasis on the teaching of safety. Each student performs a practice lesson for evaluation. *Summer.*

PEd 485 Organization and Supervision in Safety Education (3 hrs. 3 cr.)
History, philosophy, and principles of organization and administration of safety education in public schools. Legal aspects of administration. *Prerequisite*: PEd 481. *Summer.*

REQUIRED COURSES FOR HEALTH AND PHYSICAL EDUCATION MAJORS

SKILLS AND ACTIVITIES COURSES

WOMEN

PEd 111 Soccer, Speedball, and Basketball (3 hrs. 1 cr.)
Foundations course stressing skills in basketball; individual skills, team tactics, and officiating techniques in soccer and speedball. *Fall and Spring.*

PEd 112 Gymnastic and Fundamental Exercises (3 hrs. 1 cr.)
Apparatus skills for beginners, with stunts, tumbling, and pyramids for different age levels. *Fall and Spring.*

PEd 121 Lacrosse and Track and Field (3 hrs. 1 cr.)
Foundations course stressing skills in lacrosse and track and field. *Fall and Spring.*

PEd 122 Hockey and Volleyball (3 hrs. 1 cr.)
Foundations course stressing skills in field hockey; individual skills, team tactics, and officiating techniques in volleyball. *Fall and Spring.*

PEd 131 Aquatic Fundamentals (3 hrs. 1 cr.)
Basic principles of swimming for all age and ability levels. The organization and administration of competitive swimming for women is studied. *Fall and Spring.*

PEd 132 Life Saving and Water Safety (3 hrs. 1 cr.)
Continued emphasis on basic principles, and advanced skills in swimming. Life saving practices, safety and survival techniques. Synchronized swimming, stunts, formations, and routines. The course may lead to certification by the American Red Cross. *Fall and Spring.*

PEd 212 Advanced Gymnastics (3 hrs. 1 cr.)
Advanced apparatus, tumbling, pyramids, rhythmical exercises. *Fall and Spring.*

PEd 221 Advanced Hockey, Lacrosse, Track and Field (3 hrs. 1 cr.)
Advanced fundamentals and team tactics in hockey, lacrosse, and track and field. *Fall and Spring.*

PEd 222 Basketball and Tennis (3 hrs. 1 cr.)
Advanced fundamentals and team tactics in basketball; fundamental skills in tennis. *Fall and Spring.*

PEd 322 Organization and Administration of Intramurals and Interscholastic Athletics (2 hrs. 1 cr.)
Principles of organization, administration, and supervision of intramural and secondary school athletic programs. *Fall and Spring.*

PEd 323 Tennis, Softball; Basic Officiating of Hockey and Basketball (3 hrs. 1 cr.)
Advanced strategy, individual skills, and officiating techniques in tennis. Techniques and team tactics in softball. Basic officiating techniques and practical experience in hockey and basketball. *Fall and Spring.*

PEd 324 Badminton, Golf, and Archery (3 hrs. 1 cr.)
Development of skills in archery, golf, and badminton. *Fall and Spring.*

PEd 341 Modern Dance I (2 hrs. 1 cr.)
Techniques and fundamentals of modern dance on a beginner level. Methods and materials to prepare teachers for a public school program. *Fall.*

MEN

PEd 111 Introduction to Formal Gymnasium Activities (3 hrs. 1 cr.)
An introductory course in marching, gymnastic exercises, games, weight and circuit training, rope climbing, Indian clubs, wands, etc. *Fall and Spring.*

PEd 112 Introduction to Tumbling and Vaulting (3 hrs. 1 cr.)
An introduction to tumbling and vaulting, including trampoline and springboard. *Fall and Spring.*

PEd 121 Individual Sports for Men (3 hrs. 1 cr.)
Individual sports and recreational activities, including tennis, golf, volleyball, softball, tetherball, table tennis, handball, winter sports. *Fall and Spring.*

PEd 122 Soccer and Wrestling (3 hrs. 1 cr.)
Teaching soccer and wrestling with emphasis on units of instruction for the elementary, junior high, and senior high levels. Lead-up games, related activities, fundamental skills and techniques, drills, and experience in cohesive team effort. *Fall and Spring.*

PEd 131 Aquatic Fundamentals (3 hrs. 1 cr.)
Analysis and practice of the basic swimming strokes; introduction to diving and competitive swimming; speed strokes, racing starts, turns, and relay races; floating and endurance swimming; games, stunts, and exhibitions; recreational aquatics and synchronized swimming formation. *Fall and Spring.*

PEd 132 Life Saving and Water Safety (3 hrs. 1 cr.)
Diagnosis and practice of life saving skills and techniques. Boating, canoeing, and other waterfront activities are studied. Successful completion of this course may enable the student to receive senior life saving certification from the American Red Cross. *Fall and Spring.*

PEd 212 Introduction to Heavy Apparatus (3 hrs. 1 cr.)
Fundamentals of movement on apparatus including rings, parallel bars, horizontal bars, side horse, and floor exercises. *Fall and Spring.*

PEd 221 Football and Track and Field (3 hrs. 1 cr.)
Teaching football and track and field, with emphasis on units of instruction for the elementary, junior high, and senior high levels. Lead-up games, related activities, fundamental skills and techniques, drills, and experience in cohesive team effort. *Fall and Spring.*

PEd 222 Basketball and Baseball (3 hrs. 1 cr.)
Teaching basketball and baseball, with emphasis on units of instruction for the elementary, junior high, and senior high levels. Lead-up games, related activities, fundamental skills and techniques, drills, and experience in cohesive team effort. *Fall and Spring.*

PEd 322 Organization and Administration of Intramurals and Interscholastic Athletics (2 hrs. 1 cr.)
Principles of organization, administration, and supervision of intramural and secondary school athletic programs. *Fall and Spring.*

PEd 323 Advanced Basketball, Football, Soccer, Track and Field (3 hrs. 1 cr.)

See description of PEd 324. *Fall and Spring.*

PEd 324 Advanced Baseball, Golf and Tennis, Gymnastics, and Wrestling (3 hrs. 1 cr.)

Both PEd 323 and PEd 324 concentrate intensively on theoretical and practical approaches to teaching selected activities for advanced levels of performance such as interscholastic sports. In either course, students choose two of the four activities offered. The nine-week concentration on each selection includes study of physiological requirements specific to the activity, refined drills, analysis of positions, tactics, etc. Officiating and scouting procedures are included. *Fall and Spring.*

DANCE

MEN AND WOMEN

PEd 241 Elementary Rhythms and Folk Dancing (3 hrs. 1 cr.)

Fundamental locomotor and axial movements; music and rhythm in relationship. Rhythmical activities for the elementary program, with suggested teaching methods. *Fall and Spring.*

PEd 242 Social and Square Dancing (3 hrs. 1 cr.)

Rounds, squares, contras, mixers and social dancing. Curricula implications and teaching methods integrated into the course. *Fall and Spring.*

THEORY

PEd 211 Preparation for Teaching Elementary Physical Education (3 hrs. 1 cr.)

Methods for teaching games, story plays, self-testing activities, tumbling, and stunts on apparatus at the elementary level. *Fall and Spring.*

PEd 261 History and Philosophy of Physical Education (2 hrs. 2 cr.)

A study of past and present concepts of physical education; philosophy and principles of modern physical education programs. *Fall and Spring.*

PEd 311 Preparation for Teaching Secondary Physical Education (3 hrs. 1 cr.)

Class practice in teaching games, athletics, sports, and gymnastic activities, and development of activity lesson plans suitable for grades 7-12. *Fall and Spring.*

PEd 361 Tests, Measurements, and Statistics in Health and Physical Education (3 hrs. 3 cr.)
Selecting, administering, scoring, and evaluating tests of physical fitness, general motor ability, motor educability, and skill and knowledge in sports. *Fall, Spring, Summer.*

PEd 362 Physical Education for the Elementary Grades (7 hrs. 3 cr.)
Students are assigned to elementary schools in the service area for observation and teaching. The course includes a weekly seminar on theory and problems. *Fall and Spring.*

PEd 364 Organization and Administration of Physical Education (3 hrs. 2 cr.)
Principles of program building in curricular and extracurricular physical education. *Prerequisite*: PEd 361. *Fall, Spring, Summer.*

PEd 365 Physical Activities for Atypical Children I (2 hrs. 2 cr.)
An introductory course in adapted physical education. Common childhood disabilities are studied, with emphasis on problems of a chronic nature. *Fall and Spring.*

PEd 455 Applied Physiology (2 hrs. 2 cr.)
A functional course applying physiological principles of neuromuscular activity to the frame of reference of the physical educator. Through a clinical approach, the course acquaints the student with basic aspects of neuromuscular coordination and motor learning, strength development, endurance, and human motion. *Prerequisites*: Bio 261, Bio 262. *Fall and Spring.*

PEd 461 Physical Activities for Atypical Children II (2 hrs. 2 cr.)
Continued study of adapted physical education, including screening and practical training in working with physically and mentally handicapped children. *Fall and Spring.*

PEd 462 Principles of Recreation (2 hrs. 2 cr.)
Historical background of the play movement; theoretical explanations of play; the need for it in modern life and its place in education and recreation. Methods of recreation leadership. *Fall and Spring.*

PEd 463 Principles of Coaching (2 hrs. 2 cr.)
Principles and methods of coaching sports in the school program. *Fall and Spring.*

PEd 471 Student Teaching in the Secondary School, including Professional Practicum (12 cr.)
Observation and participation in teaching situations in the junior and senior high schools under qualified cooperating teachers and college supervisors. A program of professional conferences and visitations is provided throughout this teaching semester. *Fall and Spring.*

DEPARTMENT OF HISTORY

Robert E. Carlson, *Chairman*

GENERAL

SSc 300 Seminar in Contemporary European Culture (6)
A fully guided tour which offers a cross-section of Europe, past and present, through visits to museums, galleries, cathedrals, music festivals and operas. Seminars and lectures by European academicians. An annotated diary, plus a paper on some particular facet of the tour, is required. *Summer.*

SSc 331 Teaching Social Studies in Secondary Schools (3)
Designed to expose prospective secondary school teachers to methods and materials of teaching social studies. Emphasis is on the "New Social Studies" and on instructional materials drawn from the social sciences. Taken by social science education majors in their junior year. *Fall, Spring, Summer.*

SSc 332 Teaching Social Studies and Geography in Elementary Schools (3)
Methods of teaching social studies and geography in the elementary curriculum. Techniques, current research projects, reading materials, audio-visual aids, resource persons, and field trips as tools of learning. The organization, development, and use of resource units are stressed. *Fall, Spring, Summer.*

HISTORY

His 101 History of Civilization I (3)
The evolution of man's cultural elements and social institutions in the West and the East from earliest times through the Renaissance. *Fall, Spring, Summer.*

His 102 History of Civilization II (3)
Developments in civilizations from 1500 to the present, with emphasis on Western Civilization and its interrelationships with the non-Western world. *Fall, Spring, Summer.*

His 111 Western Civilization to 1300 A.D. (3)
A study of the civilization of the river valleys of the Ancient Near East, Greece, and Rome, and the Medieval Pattern of Western Civilization. Open only to history majors in liberal arts or with American history or world cultures concentrations in teacher education, or by permission of the chairman. *Fall, Spring, Summer.*

His 112 Western Civilization, 1300-1815 (3)

The Renaissance, Reformation, Commercial Revolution and Rise of Capitalism, Enlightenment, modern Nation-State, Industrial Revolution, Age of Political Revolutions. A continuation of His 111. Open only to history majors in liberal arts or with American history or world cultures concentrations in teacher education, or by permission of the chairman. *Fall, Spring, Summer.*

His 113 Western Civilization, 1815-Present (3)

A survey of the European World in the nineteenth and twentieth centuries with focus upon movements such as industrialism, nationalism, democracy, and socialism which have been common to Europe as a whole. A continuation of His 111 and 112. Open only to history majors in liberal arts or with American history or world cultures concentrations in teacher education, or by permission of the chairman. *Fall, Spring, Summer.*

His 114 The Non-Western World (3)

A survey of Far Eastern, Indian, and African history, with emphasis on the relationships of these areas with Western Civilization. Open only to history majors in liberal arts or with American history or world cultures concentrations in teacher education, or by permission of the chairman. *Fall, Spring, Summer.*

His 211 History of United States and Pennsylvania I (3)

A survey of the social, economic, political, and intellectual development of the United States and Pennsylvania from the beginning of the Colonial period to the end of the Civil War. Required of all history and social sciences majors. *Prerequisites*: His 101, His 102 or His 111, His 112, His 113. *Fall, Spring, Summer.*

His 212 History of United States and Pennsylvania II (3)

A survey of the social, economic, political, and intellectual development of the United States and Pennsylvania from 1865 to the present, with emphasis on the new industrialism and on foreign affairs. Required of all history and social sciences majors. *Prerequisites*: His 101, His 102, or His 111, His 112, His 113. *Fall, Spring, Summer.*

His 218 The Ancient World (3)

Classical Greece and Rome with consideration of economic, social, intellectual, and political history. Selected writings of the ancients. *Prerequisite*: His 101 or His 111. *Spring.*

His 219 Medieval Europe (3)

Western Europe from the fall of Rome to approximately 1300. Economic, social, political, and intellectual developments in the major kingdoms of the West; the history of the Universal Church. *Prerequisite*: His 101 or His 111. *Spring.*

His 220 Renaissance and Reformation (3)

Political, economic, social, and cultural forces which emerged during 1300 to 1650 in Europe. The evolution of modern states and the rise of the middle class. *Prerequisite*: His 101 or His 102 or His 112. *Fall.*

His 313 History of Pennsylvania (3)
The founding and development of Pennsylvania from its Colonial beginnings to the present time, with emphasis on the relation of the past to the present. *Prerequisites*: His 211, His 212. *Fall.*

His 314 Diplomatic History of the United States (3)
A survey of the theory and practice of American diplomacy from Colonial times to the present. The major segment covers 1900 to the present. *Prerequisites*: His 211, His 212. *Spring.*

His 315 Economic History of the United States (3)
The economic development of the American nation as it evolved from a frontier, agricultural country into an urban, industrial power. *Prerequisites*: His 211, His 212. *Spring.*

His 316 History of the American Frontier (3)
The westward movement and expansion from Colonial times to the end of the nineteenth century. The frontier forces which shaped American democratic institutions and ideals. *Prerequisites*: His 211, His 212. *Fall.*

His 317 History of American Science and Technology (3)
The importance of science, invention, and technology in the rise of the American nation from 1607 to the present. The transition from domestic manufacture to the machine age. *Prerequisites*: His 211, His 212. *Fall.*

His 318 Constitutional History of the United States (3)
The development of the Constitution of the United States from the Philadelphia Convention to the present with emphasis on major Supreme Court decisions. *Prerequisites*: His 211, His 212. *Fall.*

His 319 Social and Cultural History of the United States (3)
The evolution of American society from the eighteenth through the twentieth centuries. Emphasis on the impact of improving material conditions upon labor, the arts, education, religion, social mores, and family life. The changing status of minority groups, including women, the Negro, and the immigrant. *Prerequisites*: His 211, His 212. *Fall.*

His 320 History of the South (3)
The social, economic, political, and intellectual forces that have made the American South a nation within a nation. *Prerequisites*: His 211, His 212. *Spring.*

His 322 History of South Asia (3)
Primarily designed as a historical study of developments on the Indian sub-continent (India and Pakistan), the course also considers those areas of Southeast Asia (Burma and Thailand) which have been traditionally influenced by the course of Indian events. *Prerequisites*: His 101, His 102 or His 114. *Spring.*

His 323 History of the Middle East (3)
Recent history of the major Middle Eastern countries. Geographical, cultural, economic, and religious factors which have influenced the history of the area. Special attention to Middle East problems which affect international relations. *Prerequisites*: His 101, His 102 or His 113. *Fall.*

His 325 History of the Twentieth Century World (3)
A survey of the political, economic, social, and intellectual developments in the world since 1919. Special attention given to the period between the World Wars; the failure of appeasement; and the eclipse of imperialism. *Prerequisite*: His 102 or His 113. *Fall.*

His 327 History of the British Empire-Commonwealth (3)
The motivations and methods of British expansion overseas. Constitutional developments by which the dependent colonial empire evolved into the self-governing Commonwealth. *Prerequisites*: His 101, His 102 or His 112 or His 113. *Fall.*

His 328 History of Modern Africa (3)
Survey of the historical background of sub-Sahara Africa and North Africa, with emphasis on European expansion in the continent and the influence of the expansion on twentieth century African political and social movements. *Prerequisites* His 102 or His 112 or His 113. *Spring.*

His 329 History of East Asia (3)
Survey of the historical and cultural background of China, Japan, and Korea. Emphasis is given to the significance of the modern period of East Asia and its impact on world affairs. *Prerequisites*: His 101, His 102 or His 114. *Spring.*

His 331 History of England to 1688 (3)
The development of political, constitutional, economic, religious and social institutions in England from Roman times to the Glorious Rebellion. *Prerequisite*: His 101 or His 111 or His 112. *Fall.*

His 332 History of England since 1688 (3)
England as a world leader during the Commercial and Industrial Revolutions, the evolution of the democratic process, and the emergence of liberalism followed by the democratic welfare state. *Prerequisite*: His 102 or His 112 or His 113. *Spring.*

His 333 History of Latin America to 1825 (3)
The development of Latin America during its colonial times and wars of independence. *Prerequisites*: His 102 or His 112 or His 211. *Fall.*

His 334 History of Latin America since 1825 (3)
The national period in the Latin American world. *Prerequisite*: His 102 or His 113 or His 212. *Spring.*

His 339 History of the Negro American (3)
Study of the Negro in America, with emphasis on Negro slavery, the industrialization of the South, the migration to northern industrial urban centers, and the evolution of "Black Power." *Prerequisites*: His 211, His 212. *Fall.*

His 340 Modern Germany (3)
Germany in the nineteenth and twentieth centuries: Napoleonic era, rise of Prussia, nationalism and unification, imperialism and World War I, National Socialism, World War II, and Divided Germany. *Prerequisite*: His 102 or His 113 *Spring.*

His 350 Russian History to 1917 (3)
Survey of Russian history from ninth-century Kiev to the end of the Imperial period. Major emphasis is on the continuing religious, economic, social, and political traditions peculiar to the Russian State. *Prerequisite*: His 102 or His 112. *Fall.*

His 351 Soviet Russia (3)
Political, economic, social, and cultural aspects of Soviet society in the light of traditional Russian patterns and the goals of Communism. *Prerequisite*: His 102 or His 113. *Spring.*

His 360 Diplomatic History of Europe since 1815 (3)
A study of the theories and practices of power politics in Europe; age of Metternich; revolutions of 1848; unifications of Germany and Italy; era of Bismarck, formation of alliances and counter-alliances; diplomacy of colonial imperialism; First World War and Versailles peace settlements; emergence of totalitarian ideologies; World War II; and post-war Europe. *Prerequisite*: His 102 or His 113. *Spring.*

His 400 Senior Seminar in History (3)
Research in history. Methodology, bibliography, and presentation, both written and oral. The research paper for the seminar must be acceptable as a required departmental Senior Research Paper. Required of all history majors. *Fall and Spring.*

His 410 Independent Studies in History (1 to 3)
Special research projects, reports, readings in history. Open to seniors and Honors Program students only. *Prerequisite*: permission of department chairman.

ITALIAN See Department of Foreign Languages

LATIN See Department of Foreign Languages

MANAGEMENT See Department of Economics and Business

DEPARTMENT OF MATHEMATICS

Albert E. Filano, *Chairman*

Mat 101 Introduction to College Mathematics I (3)

Fundamental mathematical ideas and methods of mathematical thinking. Includes reasoning in mathematics, sets, logic, number systems, and the structure of mathematical systems. *Fall, Spring, Summer.*

Mat 102 Introduction to College Mathematics II (3)

A continuation of Mat 101. Topics selected from functions, probability, equations, limits, geometry, and trigonometry. *Prerequisite*: Mat 101. *Fall and Spring.*

Mat 105 College Algebra and Trigonometry (3)

A unified course in algebra and trigonometry. Absolute value, inequalities, functions, equations, and identities. *Prerequisite*: 3 years of high school mathematics. *Fall, Spring, Summer.*

Mat 106 Foundations of Mathematics (3)

Fundamental concepts. Set theory, structure of number systems, mathematical induction, permutations, combinations, probability, and theory of equations. *Fall and Summer.*

Mat 107 Finite Mathematics for the Management Sciences I (3)

Sets, relations, and functions; propositional calculus; permutations, combinations, and probability; inequalities and linear programming; linear equations, matrices and determinants; applications. *Fall.*

Mat 108 Finite Mathematics for the Management Sciences II (3)

A continuation of Mat 107. Non-linear relations; sequences, limits and summation; linear algebra: matrices and vector spaces; general solution of linear equations; applications. *Prerequisite*: Mat 107. *Spring.*

Mat 121 Statistics (3)

Basic concepts of statistics. Frequency distributions, measures of central tendency and variability, correlation, probability and theoretical distributions, significance of differences, and hypothesis testing. For non-mathematics majors. *Prerequisite*: 2 years of high school mathematics. *Fall and Spring.*

Mat 141 Analytic Geometry and Calculus I (3)

An introduction to analytic geometry and calculus. Limits, continuity, derivatives of algebraic functions, application of derivatives, an introduction to integration, and elements of analytic geometry. *Prerequisite*: Mat 105 or 4 years of high-school mathematics. *Fall, Spring, Summer.*

Mat 142 Analytic Geometry and Calculus II (3)
A continuation of Mat 141. Applications of differentiation, the definite integral, and plane analytic geometry. *Prerequisite*: Mat 141. *Fall, Spring, Summer.*

Mat 211 Linear Algebra (3)
An introduction to linear algebra. Matrices and determinants, systems of linear equations, vectors, and linear transformations. *Prerequisite or concurrent*: Mat 142. *Fall.*

Mat 231 Concepts of Euclidean Geometry (3)
Geometric foundations from an advanced viewpoint. Absolute geometry, parallelism, metric functions, coordinates, constructions and construction criteria, and axiom sets. *Spring.*

Mat 241 Analytic Geometry and Calculus III (3)
A continuation of Mat 142. Transcendental functions, polar coordinates, parametric equations, solid analytic geometry and vectors, and methods and applications of integration. *Prerequisite*: Mat 142. *Fall, Spring, Summer.*

Mat 242 Analytic Geometry and Calculus IV (3)
A continuation of Mat 241. Partial derivatives, multiple integrals, infinite series, expansion of functions, and additional topics in analytic geometry. *Prerequisite*: Mat 241. *Fall and Spring.*

Mat 311 Algebra for Elementary Teachers (3)
Among topics studied are properties of real numbers, equations and inequalities, systems of equations, modular arithmetic, complex numbers, and algebraic structures. *Spring.*

Mat 321 Combinatorics and Graph Theory (3)
Introduction to set theory, graph theory, and combinatorial analysis. Includes set algebra, order relations, cardinality, directed graphs, elementary combinatorics, principles of inclusion and exclusion, recurrence relations, zero-one matrices, partitions, and Polya's Theorem. *Prerequisites:* CSc 101, Mat 211, 242. *Fall.*

Mat 331 Geometry for Elementary Teachers (3)
Modern informal approach to two- and three-dimensional geometric figures, measurement, similarity, congruence, coordinate geometry, and the postulational method. *Fall.*

Mat 343 Differential Equations (3)
The theory, solution, and application of ordinary differential equations. First order equations and linear nth order equations. Applications are taken from physics, chemistry, economics, and operations research. *Prerequisite or concurrent*: Mat 242. *Fall and Spring.*

Mat 350 Teaching Mathematics in Secondary Schools (3)

Modern techniques; aims of mathematics instruction, motivation, methods of instruction, and evaluation in mathematics. The new mathematics and modern courses of study. Opportunities are provided for students to plan and present lessons in mathematics and to observe mathematics classes in secondary schools. *Prerequisite*: Mat 241. *Fall and Spring.*

Mat 351 Teaching Mathematics in Elementary Schools (3)

Concepts, learning aids, syllabi, texts, and methods in elementary school mathematics. *Prerequisite*: Mat 101. *Fall, Spring, Summer.*

Mat 401 History of Mathematics (3)

Development of mathematics from the Babylonian era to the eighteenth century. Some modern topics are also included. *Prerequisite*: Mat. 241. *Fall.*

Mat 405 Special Topics in Mathematics (3)

Content variable; announced at the time of offering.

Mat 411 Modern Algebra I (3)

Abstract algebra. The axiomatic approach to algebraic systems; relations, mappings, groups, rings, integral domains, and fields. *Prerequisite*: Mat 241. *Fall and Summer.*

Mat 412 Modern Algebra II (3)

A continuation of Mat 411. Cosets, normal subgroups, subrings, and polynomials. *Prerequisite*: Mat 411. *Spring.*

Mat 414 Theory of Numbers (3)

Properties of the integers; primes, factorization, congruences, and quadratic reciprocity. *Prerequisite*: Mat 242. *Fall of odd years.*

Mat 421 Mathematical Statistics I (3)

Primarily a course in probability theory. Representative topics are discrete and continuous random variables, probability distributions, moment generating functions, and an introduction to statistical sampling theory. *Prerequisite*: Mat 242. *Fall and Spring.*

Mat 422 Mathematical Statistics II (3)

A continuation of Mat 421. Statistical sampling theory, point and interval estimation, tests of hypotheses, regression, and correlation. *Prerequisite*: Mat 421. *Spring of odd years.*

Mat 425 Numerical Analysis (3)

Numerical methods for the approximate solution of applied problems. Interpolation theory, curve fitting, approximate integration, and the numerical solution of differential equations. *Prerequisites*: CSc 101, Mat 211, Mat 242. *Fall of even years.*

Mat 427 Introduction to Optimization Techniques (3)
The nature of optimization problems: deterministic and stochastic, discrete and continuous. Computer methods of solution: systematic and random search, linear programming, quadratic programming, dynamic programming, and others. *Prerequisite*: Mat 425. *Spring.*

Mat 431 Topics in Geometry (3)
Introduction to various branches of geometry. Includes affine, projective, and finite geometries and geometry from a linear algebraic viewpoint. *Prerequisite*: Mat 211. *Fall.*

Mat 432 Topology (3)
Elements of point set topology. Separation axioms, connectedness, compactness, and metrizability. *Prerequisite*: Mat 242. *Spring of odd years.*

Mat 433 Differential Geometry (3)
Classical differential geometry from a modern viewpoint. Included for study are curves and surfaces, shape operators, and an introduction to Riemannian geometry. *Prerequisites*: Mat 211, 242. *Fall.*

Mat 441 Advanced Calculus I (3)
Foundations of real analysis. Rigorous treatment of limits, sequences, continuity, the theory of integration, and infinite series. *Prerequisite*: Mat 242. *Fall and Spring.*

Mat 442 Advanced Calculus II (3)
A continuation of Mat 441. Infinite series of functions, functions of several variables, partial differentiation, implicit function theorems, transformations, multiple integration, and other topics. *Prerequisite*: Mat 441. *Spring.*

Mat 445 Complex Variables (3)
Introduction to functions of a complex variable. Analytic functions, mappings, differentiation and integration, power series, and conformal mappings. *Prerequisite*: Mat 242. *Spring of even years.*

Mat 490 Seminar in Mathematics (3)
Topics in mathematics selected for their significance and student-instructor interest. Independent study and student reports, oral and written. *Prerequisites*: senior standing and consent of the department chairman. *Spring.*

COMPUTER SCIENCE

CSc 101 Computer Programming (3)
Introduction to the use of computers. Machine, symbolic, and compiler languages with an emphasis on the Fortran language. Actual work with the computer to develop sufficient proficiency for the student to use it as a tool. *Fall, Spring, Summer.*

CSc 201 Computer Organization and Programming (3)

Computer input-output hardware, mass storage units, and internal components. A concentrated study of machine and symbolic language is included. *Prerequisite*: CSc 101. *Spring.*

CSc 202 Algorithmic Languages and Compilers (3)

Formal description of algorithmic languages and techniques used in their compilation. Syntax, semantics, ambiguities, procedures, replication, iteration, and recursion in these languages. *Prerequisite*: CSc 201. *Fall.*

CSc 305 Business Data Processing (3)

EDP systems design; documentation techniques, packaged programs for linear programming, critical data analysis, business games, and simulation. Provides student with background needed to design, program, document, and implement an EDP system. *Fall.*

CSc 311 Logic and Switching Theory (3)

Symbolic logic and Boolean algebra for description and analysis of switching circuits; simplification of switching circuits; error detecting and correcting codes; storage elements defined logically; basic sequential circuits; and digital system design principles. *Prerequisites*: CSc 202, Phyics 101. *Fall.*

CSc 321 Information Processing (3)

Study of information representations and relationships between the form of representation and processing techniques. Transformation between storage media. Structure of semi-formal languages and models for representation. *Prerequisite*: CSc 202. *Spring.*

CSc 331 Computational Linguistics (3)

Study of certain languages and grammar which can be specified in precise mathematical terms. Various types of formal languages are defined and their properties derived. *Prerequisite*: CSc 202 or permission of the instructor. *Fall.*

CSc 350 Computers in Education (3)

Analysis of the use of computers in educational systems. Computer Science curricula are developed to meet the general education and technical needs of elementary, secondary, and junior-college students. Study of computer support systems in education. *Prerequisite*: CSc 202. *Fall.*

CSc 461 Monte Carlo Methods and Simulation (3)

Computer simulation utilizing logical, numerical, and Monte Carlo modeling to represent systems. Use of special languages to simulate actual systems. *Prerequisites*: Mat 421, CSc 101. *Spring.*

SCHOOL OF MUSIC

Lloyd C. Mitchell, *Dean*
Alexander Antonowich, *Assistant Dean*
Charles A. Sprenkle, *Associate Dean for Graduate Studies and Research*

DEPARTMENT OF THEORY AND COMPOSITION

WRIGHT, *Chairman*; BEATTY, GANGEMI, MUNGER, SULLIVAN, WILKINSON, and Staff.

Mus 111 Foundations of Music (3)

The fundamentals of music theory. An integrated course developing basic skills in ear training, sight singing, keyboard harmony, and the analysis of form in music. I, IV, V, VII triads in root position and inversions. *Fall, Spring, Summer.*

Mus 112 Theory of Music I (3)

Continuation of Mus 111 less sight singing. Harmonization of melodies, using diatonic triads. Binary and ternary forms and other groupings of part forms. Melody writing. *Prerequisite*: Mus 111. *Fall, Spring, Summer.*

Mus 211 Theory of Music II (3)

Continued development of basic skills. Non-harmonic tones, diatonic seventh chords, modulation to closely related keys. Sonata form, the rondo and invention. *Prerequisite*: Mus 112. *Fall, Spring, Summer.*

Mus 212 Theory of Music III (3)

Further diatonic seventh chords, altered chords. Creative use of the materials of music. Variation form and fugue. *Prerequisite*: Mus 211. *Fall, Spring, Summer.*

Mus 311 Theory of Music IV (3)

Augmented triads, Neapolitan sixth chord, augmented sixth chords, chords of the ninth, eleventh, and thirteenth. Foreign modulation. Concerto forms and unique forms. *Prerequisite*: Mus 212. *Fall, Spring, Summer.*

Mus 113 Sight Singing I (3)

A continuation of music reading skills developed in Mus 111. *Prerequisite*: Mus 111. *Fall, Spring, Summer.*

Mus 213 Sight Singing II (2)

Material of advanced difficulty involving chromatic alterations, remote modulations, and intricate rhythms. *Prerequisite*: Mus 211. *Fall, Spring, Summer.*

Mus 312 Counterpoint I (2)
The contrapuntal techniques of tonal music. Chorale prelude and invention. *Prerequisite*: Mus 212. *Fall and Spring.*

Mus 313 Counterpoint II (2)
Advanced contrapuntal forms including canon and fugue. *Prerequisite*: Mus 312. *Fall and Spring.*

Mus 314 Musical Form (2)
The standard forms of tonal music based on the treatises of Goetschius and Salzer. *Prerequisite*: Mus 212. *Fall and Spring.*

Mus 315 Orchestration (2)
The orchestra, the use of instruments individually and in combination. *Prerequisite*: Mus 212. *Fall of odd years. Spring of odd years.*

Mus 318 Techniques of Twentieth Century Composition (2)
A study of the technical aspects of contemporary music. Writing "in the style of," etc. *Prerequisite*: Mus 212. *Fall and Spring.*

Mus 412 Composition I (2)
Creative writing in the forms, styles, and media best suited to the capabilities and needs of the student. *Prerequisite*: Mus 212. *Fall and Spring.*

Mus 413 Composition II (2)
Further application of Mus 412, stressing contemporary techniques. *Prerequisite*: Mus 412. *Fall and Spring.*

Mus 414 Musical Acoustics (3)
The study of sound: its production, transmission, and reception. Musical instruments, the acoustics of rooms, and the physical basis of scales. *Fall, Spring, Summer.*

DEPARTMENT OF MUSIC HISTORY AND LITERATURE

THOMSON, *Chairman*; JOHNS, PARRIS, SCHICK, WELLS, WHITTEN, J., WILLIAMS, and Staff.

Mus 121 Fine Arts (3)
A one-semester introductory course in the history and appreciation of music from the Classical through Contemporary Period. Fundamentals of music, forms, aesthetic concepts, and practices. Analysis and listening experience. Not open to music majors or elementary education students with an Area of Interest in music. Students who have sufficient musical background may, under advisement, substitute Mus 221. *Fall, Spring, Summer.*

Mus 122 Music History (3)
The history and appreciation of music from the earliest times through the Baroque Period. Musical forms, aesthetic concepts, and practices. Analysis and listening experience. A course intended for students in arts and letters. Students with sufficient musical background may, under advisement, substitute Mus 321. *Fall, Spring, Summer.*

Mus 221 Music in Western Civilization I (3)
A history of music from the Classical through Contemporary Period. Analysis of styles, forms, aesthetic concepts, and practices. *Fall, Spring, Summer.*

Mus 321 Music in Western Civilization II (3)
A history of music from earliest known times through the Baroque Period — to 1750. Analysis of styles, forms, aesthetic concepts, and practices. *Fall, Spring, Summer.*

Mus 322 American Music (2)
A cursory examination of music from the Puritan Era to 1880. Analysis of art music from MacDowell to the contemporary scene. Aimed toward developing keener aural perception of the creative process, both for the musician and the layman. *Fall.*

Mus 323 Aesthetics and Music Criticism (2)
The nature of aesthetic experience and various problems in the philosophy of art. Principles of criticism related to music and its performance. *Spring.*

Mus 421 Literature of the Musical Theater (2)
The literature of the musical theater from Singspiel to Broadway Musical. Changes in style are observed and analyzed. *Fall and Spring.*

Mus 422 Musico-Dramatic Production (2)
A study of the arts and crafts required in a musical production: coaching, set designing and construction, stage movement, choreography, and costuming. *Fall and Spring.*

Mus 224 Keyboard Literature I (2)
A survey of literature for keyboard instruments from the Baroque Period through the late Classical Period. The various styles in solo and ensemble literature are illustrated by recordings and performance by keyboard majors. *Fall.*

Mus 225 Keyboard Literature II (2)
A continuation of Mus 225. Performance by keyboard majors and recordings. Literature from the Romantic through the Contemporary Period is studied. *Spring.*

Mus 226 Art Song I (2)
A consideration of the origins of the art song, the Italian art song, and the German lied. *Fall.*

Mus 227 Art Song II (2)
Art songs of America, France, England, Scandinavia, and Russia are studied. *Spring.*

Mus 324 String Literature I (2)
A survey of literature for string instruments from the pre-Baroque through the Classical Period. Study of style, form, and analysis; performance. Students, performing on their major instruments, and pertinent recordings provide illustrative literature. *Fall.*

Mus 325 String Literature II (2)
A continuation of Mus 324, pursuing the same format and considering literature of the Romantic and Contemporary Periods. *Spring.*

Mus 326 Woodwind Literature I (2)
A survey of literature for flute, oboe, clarinet, and bassoon from the Baroque and Classical Periods. Recordings and performance by woodwind majors. *Fall.*

Mus 327 Woodwind Literature II (2)
A continuation of Mus 326. The Romantic and Contemporary Periods are studied. *Spring.*

Mus 328 Brass Literature I (2)
The nature and development of brass instruments, observed in the solo, ensemble, and orchestral literature of the sixteenth, seventeenth, and eighteenth centuries. *Fall and Spring.*

Mus 329 Brass Literature II (2)
A continuation of Mus 328, beginning with the introduction of pistons and valves in the nineteenth century and proceeding through the twentieth century to the present. *Fall and Spring.*

Mus 423 Chamber Music Literature (2)
Analysis of style and form of chamber music repertoire from the Baroque through Modern Period. Emphasis on appreciation as well as structure. *Fall and Spring.*

Mus 424 Development of the Opera (2)
A basic course in the origin and development of the opera and its dissemination throughout the Western World. *Fall and Spring.*

Mus 425 Literature of Orchestral Music (2)
A study of representative orchestral works: symphonies, concerti, suites, overtures, and others, from the Baroque Period to the present. Appreciation and analysis. *Fall and Spring.*

Mus 426 Choral Repertoire I (2)
The development and performance style of the choral repertoire of the sixteenth, seventeenth, and eighteenth centuries. *Fall.*

Mus 427 Choral Repertoire II (2)

The development and performance style of the choral repertoire of the nineteenth and twentieth centuries. *Spring.*

DEPARTMENT OF MUSIC EDUCATION

PFLIEGER, *Chairman;* BACHMAN, CAREY, COLLINS, MERRELL, MILLER, and Staff.

Mus 030 Fundamentals of Music (no credit)

For elementary education students who do not meet minimum requirements on a Music Fundamentals test. For these students the course is a prerequisite for Mus 231 and Mus 232. Intervals, scales, key signatures, and other fundamentals of musical notation are stressed. *Fall and Spring.*

Mus 231 Music for the Primary Grades (3)

Designed to equip the graduate to participate, under supervision, in the music program in the primary grades. Emphasis on basic keyboard skills, voice production, elements of music, and teaching procedures and materials. *Fall and Spring.*

Mus 232 Music for the Intermediate Grades (3)

Designed to equip graduates to participate, under supervision, in the music program in the intermediate grades. Emphasis on basic keyboard skills, voice production, elements of music, and teaching procedures and materials. *Fall and Spring.*

Mus 331 Elementary Music Methods (3)

Human growth and musical development of children in the elementary grades. Emphasis upon the selection and analysis of materials, effective teaching procedures, and evaluative techniques. *Fall and Spring.*

Mus 332 Secondary Music Methods (2)

The choral and general music program in the secondary school. Emphasis upon conceptual learning, the planning of structured learning experiences, and the selection of effective materials. *Fall and Spring.*

Mus 333 Instrumental Methods (2)

Fundamentals underlying the development of instrumental programs in the public schools. Emphasis upon program organization and administration, teaching procedures, and materials. *Fall and Spring.*

Note: *Mus 331, Mus 332, and Mus 333 are scheduled concurrently, normally in the junior year, in order to permit regular and ample opportunity for observation in area public schools.*

Mus 334 Teaching Music Appreciation in the Elementary Grades (3)
Designed to enrich the music program throughout the grades, with emphasis on listening experiences. Effective materials and procedures as well as unit organization. *Spring and Summer.*

Mus 335 Choral Materials and Practices (2)
Designed to acquaint the student with the vast amount of choral music suitable for school use. Program building and rehearsal techniques are demonstrated. *Spring.*

Mus 336 Piano Methods [Class] (2)
For piano teachers and supervisors in the organization and teaching of piano classes in the public schools. Suitable teaching materials are examined and discussed. Demonstrations and student teaching. *Spring.*

Mus 337 Instrumental Techniques and Materials (2)
For juniors and seniors who desire to specialize in instrumental music. Considers rehearsal procedures, effective materials, minor repairs of instruments, competitions and festivals, and marching band procedures. *Prerequisite*: Mus 333. *Fall and Spring.*

Mus 431 Student Teaching, Practicum, and Direction of Student Activities (12)
Observation and participation in teaching vocal and instrumental music in situations ranging from the primary grades through senior high school. Undertaken in conjunction with qualified cooperating teachers. Professional conferences and visitations are an integral part of the experience. *Fall and Spring.*

DEPARTMENT OF KEYBOARD MUSIC

CARL, *Chairman*; WHITTEN, B. (*Acting Chairman,* Fall 1968); BEDFORD, A,. BEDFORD, R., FARESE, GOTTLIEB, HALES, HAYS, PENNINGTON, PETHES, VELETA, R., WEISS, and Staff.

Pia 101-402 Piano (1)
Private study in piano for non-majors. Keyboard harmony included. *Fall, Spring, Summer.*

Pia 111-412 Piano: Advanced (1)
Private study for piano majors. Keyboard harmony included. *Fall, Spring, Summer.*

Pia 121-422 Piano: Advanced Standing (1 or 2)
Private study for piano majors who have attained advanced standing by examination. *Fall, Spring, Summer.*

Pia 400 Piano Class [Elementary Teachers] (3)
Piano accompaniments for classroom music activities, and teaching of practical classroom materials. *Summer.*

Org 100 Organ Class (½)
Designed to familiarize students with some of the problems of service playing. Available to piano majors or by permission of instructor. *Spring.*

Org 111-412 Organ: Advanced (1)
Techniques for playing the pipe organ. Organ literature is explored. *Prerequisite*: sufficient piano background to gain approval by the faculty. *Fall, Spring, Summer.*

Org 121-421 Organ: Advanced Standing (1 or 2)
For students who have attained advanced standing by examination. *Fall, Spring, Summer.*

Mas 311-314 Master Class [Keyboard] (1)
For keyboard majors. Experience in performing memorized literature. Class members also play two-piano compositions and ensemble music for piano and other instruments. Keyboard trios, quartets, and quintets are analyzed and performed. *Fall, Spring, Summer.*

DEPARTMENT OF VOCAL AND CHORAL MUSIC

SWEET, *Chairman;* ALT, CHEESMAN, CONAWAY, FRENZ, KREUGER, MARKOW, SHEPPARD, VANDEVER, WAGNER, and Staff.

Voi 101-402 Voice (1)
Private study in voice for non-majors. *Fall, Spring, Summer.*

Voi 111-412 Voice: Advanced (1)
Private study for voice majors, including study and application of the physiological and psychological principles of voice production. *Fall, Spring, Summer.*

Voi 121-422 Voice: Advanced Standing (1 or 2)
Private study for voice majors who have attained advanced standing by examination. Performance is a requirement on this level. *Fall, Spring, Summer.*

MxC 111-412 Mixed Chorus (½)
Designed to acquaint the student with choral literature for Mixed Chorus, Women's Chorus, and Men's Chorus. Program performance included. *Fall and Spring.*

Cho 311-412 Choir (½)
Designed to give the student a wide association with the choral literature for mixed chorus. Music of high-school level as well as more difficult literature. *Fall, Spring, Summer.*

CCh 121-422 Concert Choir (½)
Devoted to acquiring a fine technique in choral singing through the preparation of programs for performance. Membership by audition. *Fall and Spring.*

WGC 111-412 Women's Glee Club (½)
An opportunity for non-music students to learn the choral literature for Women's Chorus. Membership by audition. *Fall and Spring.*

CCo 211 Choral Conducting (2)
A practical application of conducting and vocal techniques in choral direction through practice in conducting a choral group. *Fall and Spring.*

CCo 212 Advanced Choral Conducting (2)
Continued development of conducting techniques with stress on conducting of polyphonic choral music and on the musical styles of the various choral periods. *Prerequisite:* CCo 211. *Fall.*

Mas 321-324 Master Class [Voice] (1)
Standard repertoire for various types of voices is performed and discussed. *Fall, Spring, Summer.*

DEPARTMENT OF INSTRUMENTAL MUSIC

CARSON, *Chairman;* BARROW, BOERLIN, BREUNINGER, GOEBEL, GUIDETTI, KLEIN, LAUDERMILCH, MIDDLETON, SMITH, SOUTHALL, VELETA, M., and Staff.

Vln 001-002 Violin (1)
Class instruction in the fundamentals of playing the violin. Bowing, left-hand technique, and introduction of positions. *Fall and Spring.*

Vla 001, Vcl 001, Bas 001 Viola, Cello, Bass (½)
Class instruction in the fundamentals of playing the viola, cello, or string bass. *Fall and Spring.*

Vln 101-402, Vla 101-402
Vcl 101-402, Bas 101-402 Strings (1)
Private instruction in violin, viola, cello, or string bass for non-majors. *Fall, Spring, Summer.*

Vln 111-412, Vla 111-412
Vcl 111-412, Bas 111-412 Strings: Advanced (1)
Private instruction for majors in violin, viola, cello, or string bass. Scales, arpeggios, etudes, and solos, representing various musical styles. *Fall, Spring, Summer.*

Vln 121-422, Vla 121-422
Vcl 121-422, Bas 121-422 Strings: Advanced Standing (1 or 2)
Private study for majors in the performance of sonatas, concerti, and solos for those who have attained advanced standing by examination. *Fall, Spring, Summer.*

Clt 001-002 Clarinet ($\frac{1}{2}$)
Class instruction in the fundamentals of playing the clarinet. Tone production, embouchure, fingering, and technique. *Fall and Spring.*

Flu 001, Obo 001, EnH 001, Bsn 001 Flute, Oboe, English Horn, Bassoon ($\frac{1}{2}$)
Class instruction in the fundamentals of playing the flute, oboe, English horn, or bassoon. *Fall and Spring.*

Flu 101-402,Obo 101-402
EnH 101-402, Clt 101-402, Bsn 101-402 Woodwinds (1)
Private instruction in flute, oboe, English horn, clarinet, or bassoon for non-majors. *Fall, Spring, Summer.*

Flu 111-412, Obo 111-412
EnH 111-412, Clt 111-412, Bsn 111-412 Woodwinds: Advanced (1)
Private instruction for majors in flute, oboe, English horn, clarinet, or bassoon. *Fall and Spring.*

Flu 121-422,Obo 121-422
EnH 121-422, Clt 121-422, Bsn 121-422 Woodwinds: Advanced Standing (1 or 2)
Private instruction for majors in the performance of sonatas, concerti, and solos for those who have attained advanced standing by examination. *Fall, Spring, Summer.*

Tpt 001-002 Trumpet ($\frac{1}{2}$)
Class instruction in the fundamentals of playing the trumpet. Tone production, embouchure, position, and technique. *Fall and Spring.*

FrH 001, Trb 001, Bar 001, Tba 001 French Horn, Trombone Baritone, Tuba ($\frac{1}{2}$)
Class instruction in the fundamentals of playing the French horn, trombone, baritone, or tuba. *Fall and Spring.*

FrH 101-402, Tpt 101-402
Trb 101-402,Bar 101-402,Tba 101-402 Brasses (1)
Private instruction in French horn, trumpet, trombone, baritone, or tuba for non-majors. *Fall, Spring, Summer*

FrH 111-412, Tpt 111-412
Trb 111-412, Bar 111-412, Tba 111-412 Brasses: Advanced (1)
Private instruction for majors in French horn, trumpet, trombone, baritone, or tuba. *Fall, Spring, Summer.*

FrH 121-422,Tpt 121-422
Trb 121-422, Bar 121-422, Tba 121-422 Brasses: Advanced Standing (1 or 2)
Private instruction for majors in the performance of sonatas, concerti, and solos for those who have attained advanced standing by examination. *Fall, Spring, Summer.*

Per 001 Percussion ($\frac{1}{2}$)
Class instruction in the fundamentals of playing percussion instruments. Snare drum rolls, bass drum and cymbal techniques, and instruction in the use of other percussion instruments. *Fall and Spring.*

Per 101-402 Percussion (1)
Private instruction in percussion instruments for non-majors. *Fall, Spring, Summer.*

Per 111-412 Percussion: Advanced (1)
Private instruction for majors in percussion instruments. *Fall and Spring.*

Per 121-422 Percussion: Advanced Standing (1 or 2)
Private instruction for majors in percussion instruments who have attained advanced standing by examination. *Fall, Spring, Summer.*

SEn 111-412 String Ensemble ($\frac{1}{2}$)
Principles of ensemble playing through the performance of various types of chamber music. *Fall, Spring, Summer.*

WEn 111-412 Woodwind Ensemble ($\frac{1}{2}$)
Principles of ensemble playing through the performance of various types of chamber music. *Fall, Spring, Summer.*

BEn 111-412 Brass Ensemble ($\frac{1}{2}$)
Principles of ensemble playing through the performance of various types of chamber music. *Fall, Spring, Summer.*

ElO 111-412 Elementary Orchestra ($\frac{1}{2}$)
Music for the beginning orchestra through performance. Emphasis on beginners' problems, organization, and techniques of string performance. *Fall and Spring.*

SyO 111-412 Symphony Orchestra ($\frac{1}{2}$)
Emphasis on performance of a wide variety of orchestral literature for concerts, accompanying student soloists, opera, and oratorio. *Fall, Spring, Summer.*

Sin 111-412 Sinfonietta ($\frac{1}{2}$)
A highly selective small orchestra which studies and performs music primarily from the Baroque, Classical, and Contemporary Periods. *Fall and Spring.*

ElB 111-412 Elementary Band ($\frac{1}{2}$)
Music for the beginning band through performance. Emphasis on beginners' problems, organization, and techniques of wind and percussion playing. *Fall and Spring.*

SeB 111-412 Second Concert Band ($\frac{1}{2}$)
Performance of band literature suitable for junior high and senior high levels. Program building, balance, and rehearsal techniques are stressed. *Fall and Spring.*

CMB 111-412 Concert and Marching Band ($\frac{1}{2}$)
The Concert Band emphasizes performance of a wide variety of band literature: standard repertoire, recently published compositions, and selections from festival lists. The Marching Band performs precision and theme drills at football games and plays for community and college functions. *Fall, Spring, Summer.*

ICo 311 Instrumental Conducting (2)
Development of conducting skills and techniques, score reading, and terminology. Works from the late eighteenth century are studied and conducted. *Prerequisite*: CCo 211. *Fall, Spring, Summer.*

ICo 312 Advanced Instrumental Conducting (2)
Continued development of conducting skills and score reading of more advanced music literature. Works from the Romantic and Contemporary Periods are studied and conducted. *Prerequisite*: ICo 311. *Fall, Spring, Summer.*

Mas 331-334 Master Class [Strings] (1)
Standard repertoire for combinations of string instruments, including trios, quartets, quintets, and other groups involving piano, organ, and other instruments. *Fall, Spring, Summer.*

Mas 341-344 Master Class [Woodwinds] (1)
Repertoire from the Baroque Period to the present, performed by ensembles of woodwind instruments. Solos are performed and discussed. *Fall, Spring, Summer.*

Mas 351-354 Master Class [Brasses] (1)
Repertoire for brass solo, homogeneous ensemble, and mixed ensemble is performed and discussed. *Fall, Spring, Summer.*

DEPARTMENT OF PHILOSOPHY

George S. Claghorn, *Chairman*

Phi 280 Introduction to Philosophy (3)

An introduction to the chief problems and methods of philosophic thought, with a survey of some typical solutions. The place and influence of philosophy in the life of man today. *Fall, Spring, Summer.*

Phi 374 Problems of Aesthetics (3)

Interpretation of beauty and art. Effect of motivation; problems in media and goals. A background of meaning for the evaluation of specific works of painting, sculpture, music, and architecture. *Spring.*

Phi 380 Ethics (3)

Great ethical systems of history, and their application to personal and social life. The right and the good, the nature of values, and critical ethical dilemmas. *Fall.*

Phi 460 Near Eastern Religions (3)

The origin, development, and outreach of Judaism and Mohammedanism. Their view of ethics, social change, and ultimate goals; branches within each; comparison with other Near Eastern religions. *Offered as needed.*

Phi 461 Indian Thought (3)

The religious and philosophical heritage of India, as found in classics of Buddhism, Islam, Jainism, and the Vedanta philosophy. *Offered as needed.*

Phi 462 Chinese and Japanese Thought (3)

A survey of Confucianism, Taoism, Buddhism, and other schools, emphasizing their view of man, family life, society, and nature. Traditional and modern developments; interaction of Far Eastern and Western thought. *Spring.*

Phi 470 History of Philosophy, Ancient (3)

A survey of the major figures of ancient philosophy, from the pre-Socratics through Plato, Aristotle, the Epicureans and Stoics, to the Skeptics and Neo-Platonists. *Fall.*

Phi 471 History of Philosophy, Medieval (3)

The history of philosophy from the early Church fathers to the late Middle Ages. St. Augustine, St. Thomas, mysticism, Jewish and Mohammedan influences, humanism, and the rise of science. *Fall.*

Phi 472 History of Philosophy, Modern (3)
From Descartes to Hegel. The social, political, and scientific impact of the philosophers. *Spring.*

Phi 483 Philosophy of History (3)
Classic philosophies of history, including those of Augustine, Vico, Hegel, Marx, Spengler, Toynbee, and Collingwood. Definitions of civilization, norms of progress and decadence, determinism and indeterminism, causality, and pattern. *Fall.*

Phi 484 American Philosophy (3)
Leaders in science, literature, religion, and government who have shaped American thought. Philosophers of Puritanism, the Revolution, Transcendentalism, and native schools of Realism, Idealism, and Pragmatism. *Fall.*

Phi 485 Contemporary Philosophy (3)
Philosophic trends since 1850, including Pragmatism, Positivism, Existentialism, the Analytic School, and the East-West discussions. *Spring.*

Phi 486 Philosophy of Religion (3)
Religion and the religious experience as viewed by major Western thinkers. The existence of God, immortality, religious knowledge, evil, miracles, and science and religion. *Spring.*

Phi 487 Philosophy of Science (3)
The nature of scientific method and scientific theory, with reference to presuppositions, inference, explanation, prediction, applications, and verification. *Offered as needed.*

Phi 488 Theory of Knowledge (3)
Theories of truth, perception, and understanding. Classic and contemporary discussions on the nature of the self, in relation to the known world. *Offered as needed.*

Phi 490 Logic (3)
The art of critical thought and of sound reasoning. Formal and classical logic; propaganda; introduction to the scientific method. *Fall, Spring, Summer.*

Phi 491 Advanced Logic (3)
Symbolic logic and its relation to contemporary philosophy and scientific thought. Two-valued sentential and quantificational logic. Many-valued logics, modal logic, and natural deduction. *Prerequisite*: Phi 490. *Offered as needed.*

Phi 498 Seminar in Ancient Philosophy (3)
Directed study of a topic in ancient philosophy as it relates to vital questions of our own time. Topic for 1969-70: The Concept of Love in Plato and Aristotle. Required of all philosophy majors. *Prerequisite*: 6 hours of philosophy or permission of the instructor. *Fall.*

Phi 499 Seminar in Modern Philosophy (3)

An intensive study of some major theme of modern philosophy. Topic for 1969-70: Evolutionary Philosophers (Spencer, Bergson, Alexander, Chardin). Required of philosophy majors. *Prerequisite*: 6 hours of philosophy or permission of the instructor. *Spring.*

DEPARTMENT OF PHYSICS

Russell K. Rickert, *Chairman*

Phy 100 Introduction to Physics (2)

Introduction to contemporary physics. Readings and discussion on the development of physical concepts. limitations of physical laws, and influences of physical thought upon other aspects of man's culture. *Fall.*

Phy 101 Physics I (4)

An introductory course. Mechanics of solids and fluids; heat; temperature; thermodynamics; the kinetic theory; and wave motion. Two hours lecture, two hours recitation, two hours lab. *Prerequisite*: Mat 141. *Fall and Summer.*

Phy 102 Physics II (4)

An extension of Phy 101. Electricity and magnetism; geometrical and physical optics; and modern physics. Two hours lecture, two hours recitation, two hours lab. *Prerequisites*: Phy 101, Mat 142. *Spring and Summer.*

Phy 103 General Physics I (4)

An introductory course. Mechanics of solids and fluids; wave motion; heat and temperature; thermodynamics; and kinetic theory. Uses algebra and trigonometry but no calculus. *Fall.*

Phy 104 General Physics II (4)

An extension of Phy 103. Electricity and magnetism; geometrical and physical optics; and modern physics. *Prerequisite*: Phy 103. *Spring.*

Phy 212 Mechanics (3)

An intermediate course. Kinematics and dynamics of particles and rigid bodies; work and energy; the conservation principles; harmonic oscillations; and properties of solids and liquids. Vector analysis is introduced as an integral part of the course. Three hours lecture. *Prerequisites*: Phy 102, Mat 142, Mat 241. *Spring.*

Phy 233 Introduction to Modern Physics (3)

An intermediate course. Special relativity, quantum effects, atomic structure and spectra, nuclear structure and reactions, molecular and solid state physics. Three hours lecture. *Prerequisites*: Phy 102, Mat 142. *Fall.*

Phy 251 Intermediate Physics Laboratory I (1)
A course to familiarize students with laboratory equipment and methods. Normally accompanies Phy 233. *Fall.*

Phy 252 Intermediate Physics Laboratory II (1)
A continuation of Phy 251. Normally accompanies Phy 212. *Spring.*

Phy 413 Analytical Dynamics (3)
An advanced undergraduate course. Wave propagation; Lagrange's equations and Hamilton's principle; rigid body motion; and special relativity. *Prerequisites*: Phy 212, Mat 343. *Spring of even years.*

Phy 414 Heat and Thermodynamics (3)
Equations of state; first and second laws of thermodynamics; ideal and real gases; entropy; and statistical mechanics. *Prerequisites*: Phy 102, Mat 343. *Spring of odd years.*

Phy 421 Electricity and Magnetism I (3)
An intermediate course. D.C. circuit analysis, electrostatics of point charges and extended charge distributions, fields in dielectrics, magnetic fields due to steady currents, Ampere's Law, and induced emfs. Three hours lecture. *Prerequisites*: Phy 212, Mat 242. *Fall.*

Phy 422 Optics (3)
An intermediate course. Theory and laboratory practice in geometrical and physical optics. Reflection and refraction at surfaces, lenses, interference and diffraction, spectroscopy, polarization, and the applications of electromagnetic theory to light. Three hours lecture. *Prerequisite*: Phy 421. *Fall of odd years.*

Phy 423 Electronics (4)
A laboratory course. Electron emission, rectification, voltage and power amplification, oscillators, and test circuits. Vacuum tube and solid state circuits. One hour lecture and six hours lab. *Prerequisites*: Phy 101, Phy 102. *Fall.*

Phy 424 Electricity and Magnetism II (3)
An extension of Phy 421. Further development of electrostatics, further treatment of dielectric materials, magnetic materials, ferromagnetism, transients, alternating currents, transmission lines, and electromagnetic radiation. Properties of materials and the field approach to electrodynamics. *Prerequisites*: Phy 421, Mat 343. *Spring.*

Phy 432 Introduction to Nuclear Physics (4)
An advanced undergraduate course. Basic nuclear properties, nuclear structure, alpha and beta decay, gamma radiation, nuclear reactions, particle accelerators, detection equipment, and elementary particles. Three hours lecture and three hours lab. *Prerequisite*: Phy 421. *Spring of even years.*

Phy 440 Introduction to Research (1 to 3)
Theoretical and experimental work in the library and laboratories. Specific problems in consultation with the faculty adviser. *Prerequisite*: consent of instructor. *Fall and Spring.*

Phy 444 Seminar (1)
Oral and written reports on approved topics. Variation in topics from year to year depending on the interests and needs of students. *Prerequisite*: senior standing. *Spring.*

Phy 451 Advanced Physics Laboratory I (1)
A course to familiarize students with contemporary laboratory equipment and methods. Normally accompanies Phy 421. *Fall.*

Phy 452 Advanced Physics Laboratory II (1)
A continuation of Phy 451. Normally accompanies Phy 422. *Fall of odd years.*

DEPARTMENT OF POLITICAL SCIENCE

Clifford H. Harding, *Chairman*

PSc 201 Introduction to Political Science (3)
Introduction to the study of political phenomena: Society, state and man; political theory; modern governmental systems; international relations; administration; political organizations; and methodology and approaches in the study of politics. *Fall, Spring, Summer.*

PSc 231 American Government (3)
General principles of the American system of government: organization and functions of the national government — legislative, executive, and judicial; the rights and duties of citizenship; the electorate, political parties, civil rights, and the growing regulatory functions of agencies. *Fall, Spring, Summer.*

PSc 331 State and Local Government (3)
Organization, theory, functions, and politics of state and local government. The role of state government in a changing federal system: finances, services, civil liberties, economic development. *Prerequisite:* PSc 231. *Spring.*

PSc 332 Comparative Government (3)
Attention primarily to developed systems and secondarily to developing systems. Methods of comparative analysis, patterns of political socialization, political culture, elite-mass relationships, and totalitarian and non-totalitarian systems. *Prerequisite*: PSc 231. *Spring.*

PSc 333 International Politics (3)

Politics among nations (including politics carried on through international organizations). Power politics, techniques of diplomacy, and methods of current international organizations. Special attention to the interests and policies of the United States. *Prerequisite*: His 102 or consent of instructor. *Spring.*

PSc 334 American Political Parties (3)

Patterns, functions, and history of the American political party system at national, state, and local levels. Theoretical and empirical studies of political interest groups, public opinion, and voting behavior. *Prerequisite*: PSc 231. *Fall.*

PSc 335 American Political Ideas (3)

Ideological treatment of major elements of American politics: constitutionalism, federalism, checks and balances, rights under law, equality and liberty, laissez faire, and welfare state. *Prerequisite*: PSc 231. *Spring.*

PSc 336 Soviet Government and Politics (3)

Concepts of interest and political power within the framework of Soviet history and ideology. Analysis of Soviet national interest, world revolution, and ultimate goals of Soviet policy. Internal politics as shaped by Lenin, Stalin, Khrushchev, and their successors. *Prerequisite*: PSc 231. *Fall.*

PSc 337 American Foreign Policy (3)

Theories, goals, and methods of American Foreign Policy in the twentieth century. While the historical development of American Foreign Policy is given attention, emphasis is on current foreign policy problems and goals. *Prerequisite*: PSc 231. *Fall.*

PSc 338 Introduction to Political Thought (3)

A survey of great political thinkers of Western Civilization from Plato to the present: Aristotle, Polybius, Cicero, St. Thomas Aquinas, Machiavelli, Hobbes, Locke, Montesquieu, Rousseau, Burke, Mill, and others. Historical background of Western thought; its relevancy to the present. *Prerequisite*: PSc 231. *Spring.*

PSc 339 Elements of Public Administration (3)

United States public administration, using texts and case studies illustrating organizational theory, administrative law, budgeting, personnel functions, human behavior and motivation, and techniques of organizational rationality. *Prerequisite*: PSc 201 or PSc 231. *Fall.*

PSc 340 American Constitutional Law (3)

The development of the American Constitutional System as reflected in leading decisions of the United States Supreme Court. Emphasis on national powers, federalism, and the bill of rights. *Prerequisite*: PSc 231. *Fall.*

PSc 341 International Law (3)

The nature, sources, and subjects of international law. The methods and practices of international legal action. The case method of analysis is employed to gain insight into basic areas of international law. *Prerequisite*: PSc 231. *Fall.*

PSc 342 Public Opinion and Propaganda (3)

The dynamics of the public opinion process and the role of public opinion in democratic and non-democratic political systems: conformity to public opinion, the "mass mind," the tyranny of the majority, censorship, and the efficacy of public opinion. *Prerequisite*: PSc 201 or PSc 231. *Spring.*

PSc 343 Municipal Government (3)

Municipal politics, problems, and government. Theory and functions of cities, suburbs, and regional areas. Anthropological, sociological, and psychological study of urban man and politics. *Prerequisite*: PSc 331 or consent of instructor. *Fall.*

PSc 400 Senior Seminar in Political Science (3)

Research in political science. Methodology, bibliography, and presentation, both oral and written. The research paper for the seminar must be acceptable as a required departmental Senior Research Paper. Required of all political science majors. *Spring.*

PSc 410 Independent Studies in Political Science (1 to 3)

Special research projects, reports, readings in political science. Open to seniors and Honors Program students only. *Prerequisite*: permission of department chairman.

DEPARTMENT OF PSYCHOLOGY

Jay L. Clark, *Chairman*

Psy 100 Introduction to Psychology (3)

A comprehensive study of the origins, motives, and modifications of human behavior. The scientific approach in analyzing behavior patterns; the importance of man's biological inheritance, and the significance of social environment in influencing human living. The simpler techniques in psychological experimentation. *Fall, Spring, Summer.*

Psy 241 Psychology of Exceptional Children (3)

Psychology of children having superior or inferior intellectual ability; defective vision, hearing and speech; emotional, social, and physical handicaps. *Prerequisite*: Psy 100. *Spring and Summer.*

Psy 243 Psychology of the Mentally Retarded (3)

A survey of the psychological development of mentally retarded children. Socio-economic, cultural, emotional, and educational factors which influence their be-behavior. *Prerequisite*: Psy 241. *Fall.*

Psy 352 Child and Adolescent Psychology (3)

Practical understanding of personality development, maturation, and problems of the child and adolescent. The interrelationship of physical, emotional, and social growth within the context of such social institutions as the home, school, and community. *Prerequisite*: Psy 100. *Fall, Spring, Summer.*

Psy 354 Social Psychology (3)

The individual in his social setting, including social norms and frames of reference, and the influence of groups and subcultures on personality and social behavior. A comparison and evaluation of research studies in the field of social psychology. *Prerequisite*: Psy 100. *Fall and Summer.*

Psy 355 Experimental Psychology (3)

A laboratory course to introduce planning, performing, and evaluating psychological experiments. Students carry out both original and classical experiments in the main areas of psychology. The experimental literature is reviewed. Two lectures plus a double-period laboratory per week. *Prerequisite*: Psy 100. *Spring and Summer.*

Psy 356 The Study of Personality (3)

Designed primarily to provide insight into the meaning, development, and structure of the normal human personality. A number of approaches are investigated, representative theories examined, and techniques for assessing personality characteristics evaluated. Emphasis is on developing propositions established from various points of view. *Prerequisite*: Psy 100. *Spring.*

Psy 361 Applied Psychology (3)

Survey of basic psychological principles as applied to industry, engineering, and other professions. *Prerequisite*: Psy 100. *Spring.*

Psy 362 History of Psychology (3)

History of the development of psychology from the nineteenth century to the present. The emergence of modern experimental psychology. *Prerequisite*: Psy 100. *Fall.*

Psy 363 Psychology of Learning (3)

Basic principles of learning and conditioning. Critical analysis of learning theories and their application to problems of normal and abnormal behavior. *Prerequisite*: Psy 100. *Fall.*

Psy 364 Physiological Psychology (3)

Neurological, endrocrinological, and other physiological processes underlying human behavior. Effects of drugs on behavior. Electrode implantation and other techniques for direct study of brain-behavior relationships. Current problems in the physiology of motivation, emotion, learning, memory, and attention processes. *Prerequisite*: Psy 100. *Fall.*

Psy 370 Mental Hygiene (3)

Analysis of the individual from several standpoints according to the principles of mental hygiene. The application of these principles to the individual's problems of adjustment to the school and society. Field trips. *Prerequisite*: Psy 100. *Fall and Summer.*

Psy 375 Abnormal Psychology (3)

The nature and manifestations of normality and abnormality, mental mechanisms and symptoms, psychoneuroses, psychoses, and the psychopathic personality. Typical cases; functions of both professional and lay people in dealing with abnormality. *Prerequisite*: Psy 100 or the equivalent. *Fall, Spring, Summer.*

Psy 400 Senior Seminar in Psychology (3)

Research in psychology. Methodology, bibliography, and presentation, both written and oral. The research paper required for the seminar must be acceptable as a required departmental Senior Research Paper. Required of all psychology majors. *Fall and Spring.*

Psy 410 Independent Studies in Psychology (1 to 3)

Special research projects, reports, readings in psychology. Open to seniors and Honors Program students only. *Prerequisite*: permission of department chairman.

PUBLIC SCHOOL NURSING

Doris R. Schoel, *Coordinator*

PSN 300 Public School Nursing (2)

Introductory principles of school nursing as a related specialty of public health nursing. *Fall.*

PSN 302 Public Health Nursing I (3)

A survey of public health work in Europe, England, and America. Social changes in public health nursing, medicine, population trends, sanitation and housing engineering and other contemporary public health problems. *Fall and Spring.*

PSN 303 Public Health Nursing II (3)

A survey of the fundamental principles, past and present. Patterns, definitions, and processes of public health nursing practice as it relates to generalized public health nursing and the school nurse. *Prerequisite*: PSN 302. *Fall and Spring.*

PSN 304 Foundations of Nutrition (3)

Principles of normal nutrition for the family, schools, and other community agencies. The nurse's role as a nutritional resource person in the family, school, and community. *Fall and Spring.*

PSN 306 Prevention and Control of Communicable Diseases (3)

An epidemiological approach to the prevention and control of communicable diseases. Communicable disease problems of our society. *Spring.*

PSN 320 Problems in School Nursing, Methods and Materials for School Nurses (3)

Special physical, emotional, and social health problems of children which affect the school, home, and community. Principles, methods, and materials in health education which help the nurse to function more effectively as a health teacher with families and as a health resource person on the school health team. *Fall and Spring.*

PSN 370 Mental Hygiene (3)

The psychology of mental hygiene including the dynamics of personality adjustment as they relate to the normal individual. Special mental health problems of the child, school, family, and community. *Fall and Spring.*

RUSSIAN See Department of Foreign Languages

SCIENCE

In general, offerings of the Division of Sciences and Mathematics are found under the heading of their field (biology, chemistry, physics, etc.) and are identified by the symbol for their field. The Sci (Science) symbol is employed for the following four offerings designed for special purposes.

Sci 150 Basic Physical Science (4)

Interpretation of selected phenomena and data supporting selected theories. Astronomy, Newton's laws of motion, conservation laws, energy, and structure of matter. Not open to science majors. Three hours lecture and two hours lab. *Fall, Spring, Summer.*

Sci 250 Science for the Elementary Grades (3)

A course to prepare the elementary teacher for teaching science. Selected units or problems which cut across various fields of science. Methods and processes of science and available resources. *Prerequisites*: Bio 100, Sci 150, or acceptable equivalents. *Fall, Spring, Summer.*

Sci 251 Matter and Energy (3)

Recommended for students in elementary education. Chemical reactions, electricity, and structure of matter. Cannot be used to satisfy requirements for science majors. *Prerequisite*: Sci 150. *Spring.*

Sci 350 Teaching Science in Secondary Schools (3)

Philosophy, objectives, and methods of teaching science. Practical experience provided. *Prerequisite*: upper division standing in a science major. *Fall and Summer.*

SOCIAL SCIENCE See Department of History

DEPARTMENT OF SOCIOLOGY AND ANTHROPOLOGY

Harold Bram, *Chairman*

ANTHROPOLOGY

Ant 231 Introduction to Anthropology (3)

Man's biological and cultural evolution; comparative and functional analysis of culture. *Fall, Spring, Summer.*

Ant 331 Human Evolution (3)

Evolutionary thought, origin, and antiquity of the primates; fossil man, and living races. *Prerequisite*: Ant 231. (Some background in biology recommended.) *Spring of odd years.*

Ant 332 Social Organization (3)

Types of social groups, their structure and function. Kinship-based groupings, bands, villages, and larger units, associations, and secret societies. Forms of organization characteristic of preliterate cultures. *Prerequisite*: Ant 231. *Spring of even years.*

Ant 333 Cultural Dynamics (3)

An empirical and theoretical study of culture changes. Impact of Western civilization on preliterate cultures. *Prerequisite*: Ant 231. *Fall of odd years.*

Ant 334 World Ethnography (3)
Selective survey of the preliterate cultures of the world, especially those of Oceania, Tropical Africa, and the American Indian. Emphasis on the cultures as they were before the changes wrought by contact with Western civilization. Various levels of societal complexity. *Prerequisite*: Ant 231. *Fall of even years.*

Ant 335 Personality and Culture (3)
Social and cultural factors in personality formation. Cross-cultural variations in the definitions and handling of deviant behavior. The psychological stresses of acculturation and accelerated cultural change. *Prerequisite*: Ant 231. *Fall.*

Ant 336 Social Anthropology (3)
Comparative study of the structure, development, and function of human society: social, economic, political, and religious institutions. *Prerequisite*: Ant 231. *Spring.*

Ant 340 [Also Lan 340] Introduction to Linguistics (3)
Introduction to phonological, morphological, and syntactical language analysis; historical reconstruction; language classification and lexico-statistical dating. Designed for other students as well as language and anthropology majors. *Fall.*

Ant 380. . [Also Lan 380] Language and Culture (3)
Language as an aspect of culture; linguistic-perceptual-cognitive categories; social and psychological aspects of language. *Prerequisite*: Ant 340 or permission of instructor. *Spring.*

Ant 400 Senior Seminar in Anthropology (3)
Research in anthropology. Methodology, bibliography, and presentation, both oral and written. The research paper for the seminar must be acceptable as a required departmental Senior Research Paper. *Spring.*

Ant 403 [Also Art 403] Primitive Art (3)
Analysis of primitive art as determined principally through ritual and myth. Focus of content divided among the following: prehistory to Early Ancient Near East; contemporary primitive cultures; psychoanalytical interpretation; and contemporary primitivistic interests of the West. *Fall.*

Ant 410 Independent Studies in Anthropology (1 to 3)
Special research projects, reports, readings in anthropology. Open to seniors only. *Prerequisite*: permission of department chairman.

SOCIOLOGY

Soc 231 Introduction to Sociology (3)
A course in the liberal arts tradition, designed to enrich the student's intellectual resources by equipping him with the sociological perspective on human behavior and the basic tools of sociological analysis. *Fall and Spring.*

Soc 332 Contemporary Social Problems (3)
Theories of the nature of man, society, and culture. The conditions, causes, and possible corrections and prevention of current social disorders: urban unrest, racial tension, poverty, addictions, crime, and delinquency. *Prerequisite*: Soc 231. *Spring.*

Soc 333 The Family (3)
A comparative, historical, and cross-cultural approach to the family as an institution. Theories and empirical research on mate selection, courtship, marital adjustment, parent-child relationship, and family crisis. *Prerequisite*: Soc 231. *Fall and Spring.*

Soc 334 Juvenile Delinquency (3)
Nature and extent of delinquency; theories of delinquency; evaluation of programs for its prevention and control; role of social agencies and their effect on delinquency. *Prerequisite*: Soc 231. *Spring.*

Soc 335 Racial and Cultural Minorities (3)
The history of immigration to America; problems of assimilation for minority groups such as American Indians, Mexican Americans, Puerto Ricans, and Negro Americans; the meaning of, responses to, and reduction of prejudice and discrimination. *Prerequisite*: Soc 231. *Fall.*

Soc 336 Urban Sociology (3)
Historical development of cities; characteristics of urban institutions; urban ecology; demographic patterns; the city's races, nationalities, and social classes; problems of the city and city planning. *Prerequisite*: Soc 231. *Fall.*

Soc 337 Sociological Theory (3)
A survey of historical and contemporary theories of society and social behavior. The logic of systematic theory construction, and the relationship between theoretical models and empirical research in substantive fields of sociology. *Prerequisite*: Soc 231. *Fall.*

Soc 338 Criminology (3)
The development of criminology as a discipline. Contemporary theories, empirical research, and the systematic study of the causation and prevention of criminal behavior. *Prerequisite*: Soc 231. *Spring.*

Soc 339 Social Stratification (3)
A critical survey of major theories of stratification (Plato, Marx, Weber, Parsons, etc.) Analysis of social inequality in contemporary societies. *Prerequisite*: Soc 231. *Fall.*

Soc 340 Introduction to Social Work (3)
History, development, and theory of social case work, group work, and community organization. *Prerequisite*: Soc 231. *Fall.*

Soc 341 Social Change (3)
Measuring and explaining social change. Modernization of traditional societies; sources, dimensions, and consequences of trends in industrial societies; strategies for planning and guiding change. The social sciences as agents of induced change. *Prerequisite*: Soc 231. *Spring.*

Soc 342 Community Analysis and Applied Social Change (3)
Social and cultural change in modern and emerging nations. The rate, degree, direction, mechanisms, and planning of change are emphasized. *Prerequisites*: Soc 231 and Soc 341. *Fall.*

Soc 343 Sociology of Small Groups (3)
Review of literature, with emphasis on experimental findings and models; critical survey of methods, such as group dynamics and group therapy, which are designed to change human behavior through the use of interpersonal or collective experiences. *Prerequisite*: Soc 231. *Spring.*

Soc 344 Sociology of Complex Organizations (3)
Theory and research of large-scale formal organizations: industrial, governmental, religious, military, political, and educational, with an emphasis on analysis of bureaucracy as the significant form of social organization in the West. *Prerequisites*: Soc 231 and Soc 336. *Fall.*

Soc 400 Senior Seminar in Sociology (3)
Research in sociology. Methodology, bibliography, and presentation, both oral and written. The research paper for the seminar must be acceptable as a required departmental Senior Research Paper. Required of all sociology majors. *Spring.*

Soc 410 Independent Studies in Sociology (1 to 3)
Special research projects, reports, readings in sociology. Open to seniors and Honors Program students only. *Prerequisite*: permission of department chairman.

SPANISH See Department of Foreign Languages

DEPARTMENT OF SPEECH AND THEATRE

SPEECH

Sph 101 Fundamentals of Speaking (2)
Development of poise and confidence in formal and informal speaking situations. Emphasis on audience analysis, finding materials, organization, and delivery. *Fall, Spring, Summer.*

Sph 102 Advanced Public Speaking (3)
Experience in developing more extended public addresses for students who have had elementary work. Emphasis on content, structure, and style. *Prerequisite*: Sph 101 or consent of instructor. *Spring.*

Sph 103 Discussion (3)
Effective leadership and participation in small groups: committees, conferences, panels, symposia. Topics vital to contemporary society are discussed. *Fall.*

Sph 105 Voice and Diction (3)
Theory and practice in techniques leading to more effective communication: better use of voice, articulation, and rhythm. *Spring.*

Sph 106 Introduction to Phonetics (3)
Study of the sounds of the English language. Development of skills in their recognition, production, and transcription. *Spring.*

Sph 201 Public Address (3)
The place of public speaking in the social, political, economic, and religious life at selected historical occasions through the study of representative speakers and their speeches. *Fall of odd years.*

Sph 203 Argumentation and Debate (3)
Function of debate in a democracy. Principles of argumentation and debate, including analysis, briefing, evidence, reasoning, and refutation. Class debating on vital issues. *Prerequisite*: Sph 101 or consent of instructor. *Fall of even years.*

Sph 204 General Semantics (3)
The study of meaning: its development and its variability in communication. The influence of signs and symbols on everyday behavior. *Spring of odd years.*

Sph 303 Advanced Argumentation and Debate (3)
Experience in various types of debating. Emphasis on educational debating. Practice in debating before invited informed and critical audiences and before the general public. *Prerequisite*: Sph 203 or consent of instructor. *Spring of even years.*

Sph 401 Psychology of Speech (3)
Communication as a psychological phenomenon. Emotional and mental processes in human communication. Function of the senses, motivation, and personality. Barriers to understanding. Confrontation. *Fall of odd years.*

Sph 402 Teaching Speech and Drama (3)
Theory and practice in teaching junior and senior high school speech and drama courses and in directing their co-curricular programs. *Spring.*

Sph 403 Persuasion (3)
Current theories of attitude and attitude change. Practice in speaking to modify behavior through appeals to the drives and motives of the listener. *Prerequisite*: Sph 101 or consent of the instructor. *Spring of even years.*

SPEECH PATHOLOGY AND AUDIOLOGY

SpP 000 Remedial Speech (1 clock hour — no credit)
Correction of problems of articulation, voice, and rhythm. Required of all students whose speech falls below a minimal standard. *Fall and Spring.*

SpP 100 Bases of Speech (3)
Social, physiological, neurological, physical, phonetic-linguistic, psychological, and semantic bases of speech. An introduction to terms and concepts. *Fall.*

SpP 201 Introduction to Speech Problems (3)
Survey of speech problems in children. The teacher's role in therapy. Emphasis on speech improvement in the classroom. *Fall, Spring, Summer.*

SpP 202 Speech Pathology I (3)
Diagnosis, etiology, and treatment of functional speech disorders. *Fall.*

SpP 203 Speech Pathology II (3)
Diagnosis, etiology, and treatment of organic speech disorders. *Spring.*

SpP 301 Introduction to Hearing Problems (3)
A survey course directed to an understanding of educational and therapeutic problems. Aspects of hearing, hearing evaluation, and hearing therapy; medical, developmental, social, physical, and psychological properties of hearing and sound. *Fall and Summer.*

SpP 302 Speech and Language Development (3)
Theoretical origin of speech in mankind and the development of speech in the individual. Normal development of speech is stressed. *Fall.*

SpP 303 Clinical Practicum (4 — 6)
Supervised practice, designed to develop clinical competencies which prepare the student to evaluate and ameliorate speech and hearing disorders. The practicum is a graduated sequence of difficulties, taken after the second year and until clinical competencies are ascertained by the clinic supervisor. *Prerequisite*: permission of instructor. *Fall and Spring.*

SpP 304 Auditory Training and Speech Reading (3)
The dual approach to aural rehabilitation of the hard-of-hearing: the relationships among the various sense modalities in the perception of speech, and the methods of speech reading and auditory training. *Fall.*

SpP 305 Audiometry (2)
A lecture-laboratory course which develops competencies in hearing measurement. *Prerequisite*: SpP 301. *Spring.*

SpP 402 Methods in Teaching the Speech and Hearing Handicapped (3)
Orientation to the professional situation. Organization and administration of a speech and/or hearing program (K-12). *Fall and Spring.*

SpP 403 Clinical Principles in Speech and Hearing (3)
Theories of speech and of related disciplines; principles and techniques of therapy. Analysis and criticism, designed to develop professional confidence and competence. Open to seniors only. *Offered as needed.*

SpP 404 Inter-Professional Seminar in Speech and Hearing (2)
Explores the interrelationship between the speech and hearing therapist and members of other professions who diagnose or treat basic or allied problems of the person with a speech or hearing problem. *Prerequisite*: permission of instructor.

THEATRE ARTS

ThA 100 Theatre Practice (1)
Laboratory experience in technical aspects of play production. Majors must take three semesters of this course. *Fall and Spring.*

ThA 101 Introduction to the Theatre (3)
Survey of the arts and crafts used in play production: writing, directing, scene design, lighting, costuming, and makeup. Criticism of plays and productions. This is the basic course and must be taken the first semester after declaring intention to complete one of the theatre arts degree programs. *Fall.*

ThA 102 Beginning Acting I (3)
Theory and practice in creating the character through development of the actor's physical and emotional responses to imaginary stimuli. Participation in student-directed productions required. One hour of lab. *Spring of even years.*

ThA 103 Beginning Acting II (3)
Continuation of ThA 102. Participation in student-directed productions required. One hour of lab. *Fall of even years.*

ThA 104 Introduction to Technical Production (3)
Selected technical aspects of play production: scene design, lighting, and production organization. *Fall of odd years.*

ThA 105 Oral Interpretation (3)
Theory and practice of oral presentation of various types of literature to an audience. Attention to teachers' problems in selection and presentation of material. *Fall and Summer.*

ThA 201 Stage Makeup (2)
Theory and practice in design and application of makeup for the stage. *Spring of even years.*

ThA 202 Television Production Techniques (2)
Analysis of studio practices. Survey of basic television tools: cameras, sound and control equipment. *Fall of even years.*

ThA 204 Stagecraft and Production Management (3)
Planning, construction, painting, rigging, and shifting of scenery. Management of all operations backstage and in the house. Practical experience in college productions. *Fall.*

ThA 205 Advanced Oral Interpretation (3)
Advanced work in oral presentation of literature with emphasis on the theory and technique of Readers Theatre. *Prerequisite*: ThA 105. *Spring of odd years.*

ThA 206 Educational Theatre Production (3)
Selection of plays suitable for elementary schools and junior and senior high schools. Techniques for effective minimal staging. *Spring and Summer.*

ThA 207 Creative Dramatics (3)
Theory and practice in the use of impromptu dramatizations as a teaching device and as a means of developing expressiveness in children. The class works with children. *Spring of even years.*

ThA 301 Play Direction (3)
Theory and practice in play production: play selection, preparation of the script, casting, rehearsing. Direction of a one-act play before an invited audience required of each student. *Prerequisite*: ThA 102 or ThA 103. *Spring of odd years.*

ThA 302 Directing and Producing the Instructional Television Program (3)
Planning the non-dramatic television production. Practice in the use of television equipment. Production of an original instructional television program required of each student. *Spring of even years.*

ThA 304 Scene Design (3)
Principles and practice in designing an appropriate and expressive milieu for the play. Perspective sketches, working drawings, and models. Historical development of stage scenery. *Prerequisite*: ThA 204. *Fall of odd years.*

ThA 305 Stage Costuming (3)
Historical development of dress. Principles and practice in the design and construction of stage costumes. One hour of lab. *Spring of odd years.*

ThA 307 Stage Lighting (3)
Elementary electrical and optical theory. Analysis of stage lighting equipment and control systems. Principles and practices in effectively lighting the play. *Fall of even years.*

ThA 308 History of the Theatre to the Sixteenth Century (3)
Development of the theatre from primitive times through pre-Shakespearean period. Analysis of theatrical productions as indications of the life style of each historical period. *Fall.*

ThA 309 History of the Theatre, Sixteenth Century to Present (3)
Development of theatre from Renaissance to Contemporary period. *Spring.*

ThA 310 History and Aesthetics of the Oriental Theatre (3)
Impact of oriental theatrical traditions on Western thought and art. Oriental integration of form and content, especially in the theatres of India, China, and Japan. *Spring of odd years.*

ThA 401 Advanced Directing (3)
Directing as a creative aspect of play production. Problems in directing actors in varied styles and forms of plays. Direction of a full-length play required of each student. One hour lab. *Prerequisite*: ThA 301. *Offered as needed.*

ThA 402 Directing and Producing the Dramatic Television Program (3)
Planning the program. Preparing the shooting script. Practice in rehearsing with actors and cameras. Production of a short television drama required of each student. One hour of lab. *Prerequisite*: ThA 301. *Spring of odd years.*

ThA 403 Advanced Acting (3)
Styles of acting. Fully staged acting projects presented and defended before an invited audience. Participation in campus plays required. One hour of lab. *Prerequisites*: ThA 102, ThA 103. *Spring of odd years.*

ThA 404 Advanced Scene Design (3)
Analysis of excellent scene designs of the past. Practice in maximizing the visual impact of stage scenery. Design projects for selected visually challenging plays. Students design for both student-directed and major productions on campus and in the area. One hour of lab. *Prerequisite*: ThA 304. *Offered as needed.*

ADMINISTRATIVE OFFICERS

[Effective as of September 15, 1968]

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Director of Public Relations and Publications	WILLIAM P. HOUPT
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Associate Dean for Graduate Studies, School of Health and Physical Education	EDWIN L. YOUMANS
Director of Athletics	ROBERT W. REESE
Dean, School of Music	LLOYD C. MITCHELL
Assistant Dean, School of Music	ALEXANDER ANTONOWICH
Associate Dean for Graduate Studies, School of Music	CHARLES A. SPRENKLE

* On detached service from the Department of Public Instruction.

STUDENT AFFAIRS

Dean of Student Affairs	Jack A. Owens
Director of Financial Aid to Students	William Benner
Director of Social Activities	Walter Blair
Dean of Men	W. Glenn Killinger
Assistant Dean of Men	Ronald Gottshall
Assistant Dean of Men	George A. Schmidt, Jr.
Dean of Women	Bernice Bernatz
Assistant Dean of Women	Anne Speisz
Assistant Dean of Women	Florence Inghram
Assistant Dean of Women	Dorothy DePew
Assistant Dean of Women	Elinor Z. Taylor
Director of Guidance and Counseling	Thomas B. Williams
Director of Placement Services	Edward T. Twardowski
Assistant to the Director of Placement Services	George A. Schmidt, Jr.
Director of Intracollegiate Governmental Association	Robert Norris
Manager of College Bookstore	Edgar Reynolds
Director of Medical Services	Philip Kistler, M.D.
Assistant Director of Medical Services	Jack C. White, M.D.

BUSINESS AFFAIRS

Director of Business Affairs	Everett E. Shaefer
Assistant Director of Business Affairs	David E. Hickman
Personnel Officer	Robert E. Holm
Purchasing Agent	Emily C. Haines
Budget Analyst	Sara Y. Baxter

FACILITIES DEVELOPMENT AND MANAGEMENT

Director of Facilities Development and Management	Robert C. Hannum
Assistant to the Director of Facilities	Lloyd W. Black
Plant Maintenance Engineer	Alfred Sykes
Assistant to the Plant Maintenance Engineer	William A. Peoples
Chief, Stores Department	Harold C. Davidson
Chief, Security Department	Samuel F. Burger

ADMINISTRATIVE PERSONNEL

Executive Clerk	Frances F. Breen
Chief Payroll Clerk	Elizabeth C. Griffith
Revenue Clerk	Doris S. Dill
Senior Clerk	Hannahbelle T. Morrison
Federal Grants	Lucille Hickox
Accounting Technician	Louise D. Burns
Publications Specialist	Lois McDowell

Laundry Supervisor	John Wooldridge
Housekeeper	Agnes Speakman
Postmaster	Frank J. Barry
Chief Switchboard Operator	Marie Lane
Grounds Foreman	Ashmore P. March
Building Maintenance Foreman	John Ray
Utility Plant Supervisor	Daniel Mintzer
Supervisor, Data Processing	Jacob E. Strauss
Carpenter Foreman	Paul Gordon

Secretary to the President	Julia D. Oat
Secretary to the Dean of Faculty and Academic Affairs	Jo Ann Smith
Secretary to the Dean of Student Affairs	Dorothy M. Hine
Secretary to the Director of Facilities Development and Management	S. Louise Phiel

FACULTY

This list is effective as of September 15, 1968. The following symbols are employed to indicate absences from the College:

① Sabbatical Leave, 1969-70
② Sabbatical Leave, Fall, 1969
③ Sabbatical Leave, Spring, 1970
④ Leave of Absence, Fall, 1969
⑤ Leave of Absence, 1969-70

EARL F. SYKES (1938) *President*
B.A., M.A. Montana University, Ed.D. Columbia University

ARNOLD FLETCHER (1946) *Dean of Faculty and Academic Affairs, Professor*
B.S., Ed.M. Temple University, Juilliard School of Music, Columbia University, Ed.D. University of Pennsylvania

JACK A. OWENS (1956) *Dean of Student Affairs, Professor*
A.B. Concord College, M.A. West Virginia University, Ed.D. Pennsylvania State University

ROBERT C. HANNUM (1966) *Director of Facilities Development and Management, Associate Professor*
B.S. Michigan State University, M.S. University of Pittsburgh

THOMAS J. AHLBORN (1967) *Assistant Professor of Mathematics*
B.S. California State College, M.A. Kent State University, University of Rochester

PETER AIZUPITIS (1967) *Assistant Professor of History*
B.A. Swarthmore College, M.S.M. University of Notre Dame, University of Delaware

ROGER K. ALFORD (1968) *Instructor of Health Education*
B.S. West Virginia University, Physical Therapy Certificate Ohio State University

ROBERT R. ALLEN (1968) *Instructor of Health and Physical Education (Part-time)*
B.S. Temple University

LOIS W. ALT (1966) *Associate Professor of Voice*
B.S. Indiana State College, B.Mus. University of Michigan, Allegheny College, M.Mus. University of Michigan, University of Southern Florida, University of Michigan

ALEXANDER ANTONOWICH (1945) *Assistant Dean, School of Music, Professor*
B.S. Juilliard School of Music, M.A., Ed.D. Columbia University

ELEANOR W. ASHKENAZ (1968) *Associate Professor of Chemistry*
B.S., Ph.D. University of Pennsylvania

SUSAN R. AUSTIN (1967) *Cataloging Librarian, Instructor*
B.S. Kutztown State College, M.S.L.S. Villanova University

TIBOR BACHMANN (1968) *Associate Professor of Music Education/Piano*
Franz Liszt Royal State Music Academy (Hungary), D.Mus. Combs College of Music, Temple University

①DOROTHY D. BAILEY (1958) *Professor of English*
B.A. Our Lady of the Lake College, M.A. University of Texas, Ph.D. University of Wisconsin

GEORGE H. BALDWIN (1967) *Associate Professor of Health and Physical Education*
B.S. Bowling Green University, M.A. Columbia University, Fairleigh Dickinson University

MICHAEL F. BANNON (1955) *Associate Dean for Graduate Studies, School of Education, Professor of Secondary Education and Professional Studies*
B.S. Troy State University, M.A. Columbia University, Ed.D. George Peabody College for Teachers

PAUL A. BANYACSKI (1965)*Assistant Professor of Philosophy*
B.A. Eastern Baptist College, Eastern Baptist Seminary, Bryn Mawr College

EDWARD A. BARROW (1956) *Associate Professor of Brass*
B.Mus., M.Mus. Eastman School of Music, University of Rochester, West Virginia University

LUTHER R. BARTH (1964) *Associate Professor of Secondary Education and Professional Studies*
B.S. Pennsylvania State University, M.Ed. Loyola University

ELIZABETH B. BEATTY (1960) *Assistant Professor of Music Education/Organ*
B.Mus. University of Michigan, Curtis Institute of Music, Ed.M. Temple University

MARSHALL J. BECKER (1968) *Associate Professor of Anthropology*
B.A., M.A. University of Pennsylvania, University of Pennsylvania

ANNE M. BEDFORD (1968) *Associate Professor of Piano (Part-time)*
A.B. Mount Holyoke College, University of Oslo, University of Paris, M.S. Juilliard School of Music

ROBERT M. BEDFORD (1966) *Associate Professor of Piano*
B.Mus., M.S. Juilliard School of Music

HUGH C. BELL (1966) *Associate Professor of Mathematics*
B.S. Youngstown University, Kent State University, M.A.T. Duke University, University of Michigan, U.S. Navy Electronics Technical School

HAROLD W. BENDA (1956) *Dean, School of Education, Professor*
B.A. Iowa State Teachers College, M.A. University of Iowa, Ed.D. New York University

WILLIAM R. BENNER (1938) *Director of Financial Aid to Students, Assistant Professor*
B.S. West Chester State College, M.A. Temple University

BERNICE H. BERNATZ (1954) *Dean of Women, Associate Professor*
B.A. Iowa State Teachers College, M.A. University of Michigan

ROBERT W. BERNHARDT (1965) *Associate Professor of Biology*
B.S., M.S. Syracuse University, University of Massachusetts

THOMAS E. BERRY (1946) *Professor of English*
A.B., A.M. University of Pennsylvania, Ph.D. University of Pittsburgh

FLOYD R. BIELSKI (1961) *Associate Professor of Geography*
B.S. Indiana State College, M.A. University of Illinois, Pennsylvania State University

LLOYD W. BLACK (1960) *Assistant to the Director of Facilities Development and Management, Assistant Professor*
B.S., M.S. Temple University, Temple University

WALTER R. BLAIR (1966) *Director of Social Activities, Associate Professor*
B.S. West Chester State College, M.Ed. Temple University, Bucknell University, Temple University

MARY M. BLISS (1952) *Assistant Professor of Biology*
A.B. Swarthmore College, M.S. Temple University

RICHARD A. BOERLIN (1961) *Assistant Professor of Woodwinds*
B.S., M.S. University of Illinois, Pennsylvania State University

VINCENT J. BONKOSKI (1968) *Assistant Professor of English*
B.S. West Chester State College, M.A. Glassboro State College

JOHN BOSWORTH-FLING (1965) *Associate Professor of English*
A.B. West Virginia University, M.A. Columbia University, M.S.J. Northwestern University, Harvard University

VALERIE E. BOYLAN (1968) *Assistant Professor of English*
B.A., M.A. Trinity College—University of Dublin

§RICHARD E. L. BRADSHAW (1964) *Assistant Professor of History*
B.A. Kenyon College, M.A. University of Pennsylvania

THOMAS J. BRADY (1967) *Assistant Professor of Political Science*
B.S. West Chester State College, L.L.B. Temple University

HAROLD BRAM (1965) *Chairman, Department of Sociology and Anthropology, Assistant Professor of Sociology*
B.A., M.A. University of New Mexico, University of Pennsylvania

RICHARD G. BRANTON (1962) *Associate Professor of Mathematics*
B.S. West Chester State College, M.S. University of Delaware, University of Pennsylvania, Villanova University

JUSTO B. BRAVO (1964) *Professor of Chemistry*
B.S. Adamson University (Manila), Ph.D. University of Kansas

ALMA W. BRETHAUER (1968) *Instructor of Physical Education*
B.S. University of Wisconsin, West Chester State College

TYRONE BREUNINGER (1965) *Instructor of Brass (Part-time)*
B.S. West Chester State College, Temple University

JAMES B. BRICE (1968) *Supervisor of Student Teaching, Associate Professor*
B.S., M.Ed. West Chester State College, M.A. Villanova University, Pennsylvania State University, University of Pennsylvania

ROGER J. BROWN (1966) *Instructor of French*
B.S. West Chester State College, West Chester State College, Wells College, University of Delaware

WILLIAM C. BROWN (1968) *Assistant Professor of Biology*
B.S., M.Ed. Bloomsburg State College

JOSEPH P. BROWNE (1966) *Associate Professor of English*
B.S. St. Joseph's College, M.A. University of Pennsylvania, University of Pennsylvania

LEONA W. BROWNELL (1966) *Associate Professor of Biology*
B.A. Iowa State Teachers College, Washington University, M.S. University of Wisconsin, George Washington University, Columbia University, State University of Iowa, Harvard School of Public Health, Boston University, Ph.D. University of Delaware

CLINTON BRUESS (1968) *Associate Professor of Health Education*
B.S. Macalester College, M.A. University of Maryland, Ed.D. Temple University

STELLA E. BRUTON (1964) *Associate Professor of English*
A.B., M.A. Stanford University, University of North Carolina, West Chester State College

WALTER E. BUECHELE, JR. (1962) *Director of Summer Sessions, Associate Professor of Secondary and Professional Education*
B.S. West Chester State College, Ed.M. Temple University

HOWARD JAMES BURGWIN, JR. (1968) *Assistant Professor of History*
B.A. Swarthmore College, M.A. University of Pennsylvania, Ph.D. University of Pittsburgh

WILLIAM F. BURNS (1964) *Associate Professor of Political Science*
B.A. Allegheny College, M.A. Western Reserve University, University of Pennsylvania

A. WAYNE BURTON (1965) *Associate Professor of Political Science*
B.A. Brigham Young University, M.A. University of Pennsylvania, Brigham Young University, University of Pennsylvania

J. WILLIAM BUTLER (1966) *Assistant Professor of Health and Physical Education*
B.S. West Chester State College, M.Ed. Pennsylvania State University

JOHN D. CAPUTO (1968) *Associate Professor of Philosophy (Part-time)*
B.A. LaSalle College, M.A. Villanova University, Ph.D. Bryn Mawr College

MARGARETTA A. CAREY (1968) *Associate Professor of Music Education*
B.S. Lebanon Valley College, M.Mus. Eastman School of Music, Ed.D. Pennsylvania State University

ROBERT L. CARL (1946) *Chairman, Department of Keyboard Music, Assistant Professor of Piano*
B.S. Johns Hopkins University, B.Mus., M.Mus. Peabody Conservatory of Music

ROBERT E. CARLSON (1961) *Chairman, Department of History, Professor of History*
B.A., M.A., Ph.D. University of Pittsburgh

CECILY G. CARMICHAEL (1962) *Head, Library Circulation Department, Instructor*
B.S. Simmons College

PAUL E. CARSON (1946) *Chairman, Department of Instrumental Music, Associate Professor of Woodwinds*
B.S. Central Missouri State College, M.F.A. Carnegie Institute of Technology, Professional Diploma Teacher's College—Columbia University

LEROY H. CARTER (1968) *Instructor of History*
B.A. Lincoln University, West Chester State College

GERALD B. CARTRIGHT (1961) *Principal, Laboratory School, Supervisor of Student Teaching, Associate Professor of Education*
B.S. Lock Haven State College, M.Ed. Pennsylvania State University, Pennsylvania State University

DIANE O. CASAGRANDE (1968) *Assistant Professor of Speech and Theatre*
A.B. Wayne State University, M.A. Temple University

LOUIS ANTHONY CASCIATO (1963) *Associate Professor of Physics*
B.S. St. Joseph's College, M.S. Villanova University, University of Pennsylvania

GARY D. CELAIN (1968) *Instructor of Health and Physical Education*
B.Mus. with major in Dance Philadelphia Musical Academy

June H. Cella (1967) *Assistant Professor of Nursing (Part-time)*
B.S.N. Villanova University, M.S.N. University of Pennsylvania

Conrad E. Chalick (1962) *Guidance Counselor, Associate Professor*
B.A. Pennsylvania Military College, M.A. Villanova University

Lawrence B. Charry (1968) *Associate Professor of Education (Reading)*
B.A., M.A. New York University, Ed.D. Temple University

David S. Charters (1968) *Associate Professor of Physical Education*
B.S., M.S. Temple University, Pennsylvania State University, University of Colorado, University of New Mexico

②Frank T. Cheesman (1947) *Professor of Voice*
B.Mus.Ed., B.Mus., M.Mus. Northwestern University, Ed.D. Columbia University

Nona E. Chern (1968) *Assistant Professor of Elementary Education*
B.S. Temple University, M.S. University of Pennsylvania, Temple University, University of Chicago, Pennsylvania State University

Carmela L. Cinquina (1963) *Professor of Biology*
B.S. West Chester State College, Temple University, Johns Hopkins University, M.S. Villanova University, Ph.D. Rutgers—The State University of New Jersey

George S. Claghorn (1963) *Chairman, Department of Philosophy, Professor of Philosophy*
B.A. University of Chattanooga, Ph.D. University of Pennsylvania, Columbia University

Jay L. Clark (1967) *Chairman, Department of Psychology, Professor of Psychology*
B.A. University of Delaware, M.A., Ph.D. University of Minnesota

Joyzelle Clark (1965) *Associate Professor of Guidance and Counseling*
B.A., Ed.M. University of Buffalo, Pennsylvania State University, Gettysburg College, University of Pennsylvania

Mary Elizabeth Cleary (1967) *Assistant Professor of Secondary Education and Professional Studies*
B.A. St. Joseph's College for Women, St. John's University, Trenton State College, A.M. George Washington University

John W. Clokey (1946) *Director, Division of Arts and Letters, Chairman, Department of English, Professor of English*
B.S. West Chester State College, Ed.M. Temple University, Temple University

Barbara J. Coates (1954) *Associate Professor of Health and Physical Education*
B.S. Lock Haven State College, M.A. Allegheny College

Norman A. Cochran (1956) *Professor of Health and Physical Education*
B.S. West Chester State College, M.A., Ed.D. University of Maryland

Richard C. Cohoes (1965) *Associate Professor of Mathematics*
A.B., A.M., M.A. Columbia University, New York University

MILTON R. COLLIER (1967) *Assistant Professor of Health and Physical Education*
B.S., M.A. East Carolina College

JOHN C. COLLINS (1968) *Assistant Professor of Voice/Music Education*
B.S. Juilliard School of Music, M.A. Montclair State College

UEL W. COMBS, JR. (1967) *Instructor of English*
B.A. Adams State College, M.A. Temple University

STELLA F. CONAWAY (1966) *Assistant Professor of Voice/Music Theory and Composition*
B.Mus., M.Mus. Philadelphia Conservatory of Music, Philadelphia Musical Academy

GERALDINE C. CONBEER (1946) *Head, Library Technical Processing Department, Associate Professor*
B.S. Millersville State College, B.S. Drexel Institute of Technology, M.Ed. University of Pittsburgh

PHYLLIS S. COOPER (1964) *Instructor of Health and Physical Education*
B.S. University of Maryland, University of Maryland

②WILLIAM F. COPE (1963) *Associate Professor of Speech and Theatre*
B.F.A. University of Oklahoma, M.A. Columbia University, State University of Iowa, Biarritz American University (France)

THOMAS J. CORR (1966) *Assistant to the Dean, College of Arts and Sciences, Associate Professor of English*
A.B. St. Joseph's College, M.A. John Carroll University, Duquesne University

EDWIN B. COTTRELL (1955) *Assistant to the Dean, School of Health and Physical Education, Professor*
B.S. Slippery Rock State College, M.Ed. University of Pittsburgh, Ed.D. Pennsylvania State University

JON A. COWEN (1967) *Assistant Professor of Sociology*
B.A. University of Massachusetts, M.A. University of Pennsylvania

JOHN L. CREW (1968) *Associate Research Director for Grants, Professor of Secondary Education and Professional Studies*
B.S. Morgan State College, M.A. New York University, Ph.D. University of Maryland

FLORENCE JOSEPH CROWLEY (1968) *Associate Professor of History*
B.A., M.A. Brooklyn College, Ph.D. University of Florida

MARGARET G. CULLEN (1964) *Associate Professor of Biology*
B.S., M.A. Kent State University, University of Pennsylvania

ALVIN B. DAVIS (1948) *Associate Professor of Health and Physical Education*
B.S. Panzer College, M.A. Montclair State College

THOMAS F. DE CARO (1968) *Associate Professor of Biology (Part-time)*
B.S. Rutgers—The State University of New Jersey, M.S. University of New Hampshire, Ph.D. University of Pennsylvania

CHRISTEL DEFENDI (1968) *Instructor of Speech and Speech Pathology and Audiology (Part-time)*
B.S. Wayne State University, M.A. Columbia University

HARRY H. DEISCHER (1966) *Supervisor of Secondary Student Teaching, Associate Professor*
B.S., M.A., M.S. University of Pennsylvania, University of Pennsylvania

DOROTHY H. DEPEW (1967) *Assistant Dean of Women, Instructor*
B.S. West Chester State College, Bucknell University, Pennsylvania State University, Lebanon Valley College, West Chester State College

BACHUBHAI M. DESAI (1965) *Cataloging Librarian, Instructor*
B.A. Baroda College—Bombay University (India), M.S.L.S. Villanova University

PHILLIP B. DONLEY (1965) *Associate Professor of Health and Physical Education*
B.S., M.S. West Virginia University, Certificate in Physical Therapy D.T. Watson School of Physiatrics

JOHN E. C. DORCHESTER (1961) *Professor of Biology*
B.A., M.A. University of British Columbia, Ph.D. University of Toronto

PERCY H. DOUGHERTY (1968) *Instructor of Geography (Part-time)*
B.S. West Chester State College, West Chester State College

RAYMOND A. DOYLE (1965) *Instructor of History*
B.S. West Chester State College, University of Delaware

A. SCOTT DUNLAP (1967) *Assistant Professor of Elementary Education*
B.A. King's College, M. Div. Eastern Baptist Theological Seminary, Westminster Seminary, Pennsylvania State University, West Chester State College, University of Pennsylvania

MARC L. DURAND (1968) *Associate Professor of Chemistry*
B.S. Holy Cross College, Ph.D. University of New Hampshire

CAROL A. ECKMAN (1967) *Assistant Professor of Health and Physical Education*
B.S. Lock Haven State College, Pennsylvania State University, M.S. West Virginia University

JACK P. EDWARDS (1968) *Guidance Counselor, Assistant Professor*
B.S. West Chester State College, West Chester State College

THOMAS EGAN (1968) *Assistant Professor of Mathematics (Part-time)*
B.S., M.S. West Chester State College, Temple University, University of Pennsylvania

RALPH A. EISENSTADT (1965) *Assistant Professor of German*
B.A. University of Pennsylvania, M.A. University of Illinois, Princeton University

DAVID S. ELDREDGE (1967) *Associate Professor of Political Science*
B.A. Yale University, A.M.T. Harvard University, University of Pennsylvania

JORGE ESCORCIA (1968) *Associate Professor of Spanish*
Universidad Pedagogica del Caribe, Instituto Linguistico Colombo-Americano, M.A. Boston University, University of Pennsylvania

MARK M. EVANS (1947) *Director, Student Teaching, Professor of Education*
B.Ph. Dickinson College, M.Ed., Ph.D. University of Pittsburgh

EDWARD G. EVERETT (1954) *Professor of History*
B.S. Indiana State College, M.A., Ph.D. University of Pittsburgh

DONNA P. FARESE (1968) *Assistant Professor of Piano*
B.A. Dunbarton College, M.Mus. Catholic University of America, Catholic University of America

WESLEY E. FASNACHT (1967) *Associate Research Director for Computer Services, Assistant Professor of Mathematics*
B.S. Millersville State College, M.S. State University of New York at Buffalo

ELIZABETH J. FEIN (1966) *Instructor of Nursing (Part-time)*
R.N. Flower Fifth Avenue Hospital, B.S. West Chester State College

RUTH C. FELDMAN (1967) *Associate Professor of Psychology*
B.A., M.A. Ohio State University, M.S.S. Western Reserve University, Ed.D. Temple University

③ALBERT E. FILANO (1956) *Director, Division of Sciences and Mathematics, Chairman, Department of Mathematics, Professor of Mathematics*
B.S., M.S. University of Pennsylvania, Ph.D. Pennsylvania State University

JUDITH S. FINKEL (1968) *Instructor, Laboratory School*
B.S. Temple University, West Chester State College

JOSEPH T. FISHER (1968) *Associate Professor of Health Education*
B.S. Slippery Rock State College, M.S. University of Illinois, Temple University

BYRON Y. FLECK (1953) *Director, Division of Social Sciences, Professor of History and Political Science*
Franklin and Marshall College, B.A., M.A., Ph.D. University of Iowa

FRANK B. FORD (1965) *Assistant Professor of English*
B.A., M.A. University of Connecticut

WILLIAM D. FORDYCE (1968) *Associate Professor of English*
A.B., A.M.T., A.M., Ph.D. Harvard University

Virginia A. Forsyth (1966) *Instructor of Health and Physical Education*
B.S. West Chester State College

Claude R. Foster, Jr. (1967) *Associate Professor of History*
B.A. Eastern Baptist College, M.A. University of Delaware, Th.M. Crozer Theological Seminary, Ph.D. University of Pennsylvania

Frank Fox (1967) *Associate Professor of History*
B.S.. Temple University, M.A. University of Pennsylvania, Ph.D. University of Delaware

Thomas J. Francella (1965) *Associate Professor of Secondary Education and Professional Studies*
A.B. Syracuse University, M.A. Villanova University

Howard Freeman (1961) *Associate Professor of Special Education*
B.S. Millersville State College, M.A. University of Wyoming, University of Pennsylvania

Mary Lou Frenz (1967) *Assistant Professor of Voice*
B.Mus., M.Mus. Westminster Choir College, Academy of Vocal Arts, Temple University, Beaver College

Donald Fridshal (1968) *Associate Professor of Mathematics*
B.E.E., M.S. New York University, Ph.D. University of Connecticut

Walter E. Frieman, Jr. (1961) *Professor of Latin*
B.S. New York University, S.T.B. General Theological Seminary, S.T.M. Philadelphia Divinity School, Th.D. Philadelphia Divinity School

Walter E. Funk (1966) *Chairman, Department of Health Education, Associate Professor of Health and Physical Education*
B.S. Pennsylvania State University, University of Pennsylvania, M.Ed. University of Delaware

John J. Furlow (1961) *Assistant Professor of Health and Physical Education*
B.S. West Chester State College, Temple University, M.Ed. West Chester State College, Pennsylvania State University

Charles D. Gangemi (1961) *Associate Professor of Piano/Music Theory and Composition*
B.A., M.A. University of Pennsylvania

William N. Garrett (1966) *Associate Professor of English*
A.B. Columbia University, Ph.D. Columbia University

Edward B. German (1966) *Supervisor of Elementary Student Teaching, Associate Professor*
B.S. Kutztown State College, University of Pennsylvania, M.Ed. Temple University, Temple University

Edward H. Gibson (1967) *Assistant Professor of Elementary Education*
B.S. West Chester State College, Villanova University, M.Ed. Lehigh University

MARGARET E. GILES (1964) *Instructor of English*
B.S. Gettysburg College, M.A. Johns Hopkins University

LOUISE S. GIUNTA (1963) *Instructor of Health and Physical Education*
B.S. West Chester State College, Temple University

RICHARD C. GLEOCKLER (1967) *Associate Professor of Secondary Education and Professional Studies*
B.S. Bloomsburg State College, M.Ed. Bucknell University, Pennsylvania State University

DUSAN P. GLUMAC (1963) *Associate Professor of Russian*
M.Div., M.S., M.A. University of Belgrade, University of Pennsylvania

JOSEPH A. GOEBEL, JR. (1968) *Instructor of Percussion (Part-time)*
B.S. Millersville State College

CHARLES W. GOOD (1966) *Supervisor of Secondary Student Teaching, Associate Professor*
B.A. Pennsylvania State University, M.A. University of Pennsylvania, Temple University

CHARLOTTE M. GOOD (1965) *Associate Professor of Elementary Education*
B.S. Bucknell University, M.Ed. Pennsylvania State University, Temple University, University of Hawaii, University of Chicago

HENRY E. GOODWIN (1960) *Associate Professor of Health and Physical Education*
B.S. Lock Haven State College, M.A. Pennsylvania State University, Pennsylvania State University

MIRIAM S. GOTTLIEB (1946) *Associate Professor of Piano*
A.B. University of Denver, M.A. Columbia University, Juilliard School of Music

RONALD L. GOTTSHALL (1966) *Assistant Dean of Men, Associate Professor*
B.S. Shippensburg State College, M.A. Michigan State University, Michigan State University

JOHN H. GRAFTON (1961) *Assistant Professor, Laboratory School*
B.S. West Chester State College, M.A. Scarritt College, Temple University

CHARLES W. GRASSEL (1968) *Associate Professor of Geography*
B.S., M.S. University of Pennsylvania, West Chester State College, Villanova University

SAUL H. GREENBERG (1963) *Associate Professor of Psychology and Special Education*
B.S., M.Ed. Pennsylvania State University, Gallaudet College, Rutgers—The State University of New Jersey, Temple University

SEYMOUR S. GREENBERG (1964) *Professor of Geology*
B.S. Brooklyn College, A.M., Ph.D. Indiana University

ROBERT GREENE (1967) *Assistant Professor of French*
A.B., A.M. University of Pennsylvania

Mildred L. Greenwood (1965) *Assistant Professor of Health and Physical Education*
A.B. Wheaton College, M.Ed. Temple University, Temple University, Pennsylvania State University

Catherine E. Gregg (1954) *Professor of Psychology*
B.A. Oberlin College, M.A. Western Reserve University, Ph.D. Columbia University

Alice B. Griffin (1965) *Associate Professor of English*
A.B. University of Delaware, A.M. University of Maryland, Ph.D. University of Pennsylvania

Rita Griffith (1967) *Associate Professor of Speech and Speech Pathology and Audiology*
B.A. Nazareth College, A.M. Cornell University, State University of Iowa, Ph.D. Ohio State University

Yvonne Gros (1963) *Instructor of Health and Physical Education*
B.S. Ursinus College

Terry E. Guidetti (1966) *Assistant Professor of Clarinet*
B.Mus.Ed., M.Mus. Northwestern University, Indiana University

Madelyn Gutwirth (1966) *Associate Professor of French*
B.A. Brooklyn College, M.A., Ph.D. Bryn Mawr College

Ethel G. Haas (1953) *Associate Professor of Elementary Education*
B.S. Plattsburgh State Teachers College, M.Ed. University of Maryland, University of Maryland, University of Pennsylvania

James E. Habecker (1964) *Associate Professor of Elementary Education*
A.B. Franklin and Marshall College, M.Ed. Western Maryland College, Pennsylvania State University, University of Pennsylvania

Helen E. Hales (1962) *Associate Professor of Piano*
B.Mus. Peabody Conservatory of Music, Johns Hopkins University, M.Mus. Peabody Conservatory of Music, Temple University

Albert B. Halley (1966) *Professor of English*
B.A. Marshall University, A.M. Harvard University, Vanderbilt University, University of Zurich (Switzerland), M.A. University of Michigan, Ph.D. University of Cincinnati

H. Theodore Hallman (1950) *Professor of Art*
B.F.A., B.S., M.F.A. Temple University, Tyler School of Fine Arts

Josephine C. Hampson (1963) *General Reference and Interlibrary Loan Librarian, Instructor*
B.S. West Chester State College, Philadelphia Museum School of Art, Drexel Institute of Technology

NANCY MARIE HARDIGAN (1967) *Instructor of English*
B.A. Jackson College of Tufts University, M.A. Boston College

CLIFFORD H. HARDING (1953) *Chairman, Department of Political Science, Professor of Political Science and History*
A.B. Nebraska State College, M.A. State University of Iowa, Ph.D. New York University

JOAN HASSELQUIST (1968) *Supervisor of Elementary Student Teaching, Assistant Professor*
B.S., Ed.M. Temple University, University of Pennsylvania

ELIZABETH A. HASSON (1967) *Instructor, Laboratory School*
B.S. West Chester State College

J. BERNARD HAVILAND (1968) *Associate Professor of English*
B.A. Princeton University, M.A. Harvard University, Ph.D. Dublin University

ROBERT W. HAWKES (1962) *Associate Professor of Physics*
B.S. West Chester State College, M.S. Pennsylvania State University, University of Delaware

ARTHUR S. HAWTHORNE (1949) *Associate Professor of Geography*
B.S. California State College, M.A. University of Pittsburgh, University of Pittsburgh

JACK G. HAWTHORNE (1965) *Associate Professor of Art*
B.A. Philadelphia College of Art, M.Ed., M.F.A. University of Pennsylvania

HAROLD L. HAYES (1967) *Professor of Speech and Theatre*
B.F.A., M.F.A., Ph.D. State University of Iowa

PHYLLIS J. HAYS (1966) *Associate Professor of Piano/Music Theory and Composition*
B.Mus., M.Mus. Peabody Conservatory of Music, Peabody Conservatory of Music, Indiana University, Johns Hopkins University

FRANK D. HELKER (1967) *Assistant Professor of Physics (Part-time)*
B.S. West Chester State College, M.Ed. Temple University

FRANK Q. HELMS (1966) *Director of Library Services, Associate Professor*
B.A. University of Delaware, M.L.S. Rutgers—The State University of New Jersey, Rutgers—The State University of New Jersey

WILLIAM H. HENRY, JR. (1960) *Associate Professor of English*
A.B. University of Pennsylvania, Ed.M., A.M. Temple University

ROBERT W. HERRES (1961) *Associate Professor of Elementary Education*
B.S. State University College at Oswego, M.A. Syracuse University, Columbia University, New York University, University of Virginia

LEONARD S. HEVERLY (1967) *Head, Library Serials Department, Associate Professor*
B.S. West Chester State College, Temple University, M.A. University of Pennsylvania, M.S.L.S. Villanova University, University of Mississippi

MARTIN J. HIGGINS (1967) *Director of Research and Related Services, Professor*
B.S. University of Dayton, M.A., Ph.D. University of Maryland

JULIUS M. HILL (1955) *Professor of Guidance and Counseling*
B.S. Northern Michigan College of Education, M.A., Ph.D. University of Michigan

PERRY F. HOBERG (1965) *Assistant Professor of Art*
B.F.A., B.S. Pennsylvania Academy of Fine Arts, Tyler School of Fine Arts, M.A. University of Delaware

WILLIAM U. HODGSON (1968) *Director of Scheduling and Academic Records, Assistant Professor of Mathematics*
B.S. University of Pittsburgh, M.Ed. West Chester State College

MICHELE HOEY (1968) *Instructor of Mathematics*
B.S. State University College at Oswego, Syracuse University, Temple University

PHILIP HOGGARD (1968) *Supervisor of Student Teaching, Associate Professor*
B.S. Jersey State College, Ed.M. Rutgers—The State University of New Jersey, Harvard University, Seton Hall University

JOHN HOLINGJAK, JR. (1965) *Supervisor of Secondary Student Teaching, Associate Professor*
B.S. Kutztown State College, Ed.M. Temple University, University of Pennsylvania

ANTHONY B. HOPKINS (1960) *Assistant Professor of Health and Physical Education*
B.A., M.S. Springfield College

WILLIAM P. HOUPT (1963) *Director of Public Relations and Publications, Professor of History*
A.B., M.A. (History), M.A. (Literature), Ph.D. University of Pennsylvania

VIRGINIA M. HUFFMAN (1967) *Assistant Professor of Health and Physical Education*
B.S. East Stroudsburg State College, Edinboro State College, M.S. Pennsylvania State University, Indiana University

CLAUDE HUNSBERGER (1967) *Associate Professor of English*
B.A. Temple University, M.A. Michigan State University, University of Wisconsin

LAWRENCE V. IACONO (1966) *Instructor of Political Science*
B.S. St. Joseph's College, West Chester State College

FLORENCE B. INGHRAM (1960) *Assistant Dean of Women, Assistant Professor*
B.A. State University of Iowa, M.A. Columbia University, Claremont Graduate College

HELEN T. IVINS (1946) *Assistant Professor of History*
B.S. West Chester State College, M.S. University of Pennsylvania

JOHN M. JACECKO (1967) *Supervisor of Elementary Student Teaching, Associate Professor*
B.S., M.Litt. University of Pittsburgh, West Virginia University, Western Reserve University, Florida State University

SUZANNE T. JACOBS (1962) *Associate Professor of Speech*
A.B. University of Pennsylvania, Ed.M. Temple University, Pennsylvania State University, Delaware University

CONSTANTINE JOHNS (1954) *Director of Cultural Affairs, Professor of Music History and Literature/Strings*
B.S. Southeast Missouri State Teachers College, M.A., Ed.D. Columbia University

PATRICIA C. JOHNSON (1966) *Associate Professor of History*
B.A. Chestnut Hill College, Ph.D. University of Rochester

EMLYN H. JONES (1968) *Instructor of Physical Education*
B.S. West Chester State College, West Chester State College

HARRY G. JONES (1960) *Assistant Professor of Biology*
B.S. Millersville State College, M.S. University of Pennsylvania

RUBY J. JONES (1961) *Supervisor of Elementary Student Teaching, Assistant Professor*
B.S. West Chester State College, M.A. Temple University, University of Pennsylvania

LEAH E. JORDAN (1962) *Professor of English*
B.A. Swarthmore College, M.A., Ph.D. University of Pennsylvania

GEORGE F. KANE (1966) *Guidance Counselor, Associate Professor*
B.S. Ursinus College, M.Ed. Temple University, Temple University, University of Pennsylvania

BRENT KAPLAN (1968) *Associate Professor of Physics*
B.M.E., M.M.E. New York University

SALVADOR C. KAPUNAN (1966) *Assistant Professor of Philosophy*
B.A. San Jose Seminary (Philippines), M.A. San Jose Graduate School, Ph.D. University of St. Tomas (Philippines), New York University

M. L. MICHAEL KAY (1968) *Associate Professor of History*
B.A. Maryville College, Ph.D. University of Minnesota

ALVIN S. KEINARD (1948) *Chairman, Department of Geography, Professor of Geography*
B.A. Juniata College, M.Ed., Ed.D. Pennsylvania State University

JAMES T. KELLEHER (1968) *Associate Professor of English*
B.A. PMC Colleges, M.A. University of Pennsylvania

Ammon G. Kershner, Jr. (1965) *Professor of English*
B.A., M.S., A.M., Ph.D. University of Pennsylvania, Temple University

W. Glenn Killinger (1934) *Dean of Men, Assistant Professor*
B.S. Pennsylvania State University, M.A. Columbia University, D.S. Gettysburg College

Charlotte E. King (1955) *Chairman, Department of Elementary Education, Professor of Elementary Education*
B.S., Ed.M., Ed.D. Temple University

Eugene Klein (1967) *Assistant Professor of Cello*
B. of M.E. Temple University, M.M.E. Indiana University

Mary L. Kline (1968) *Assistant Professor of Nursing (Part-time)*
B.S. West Chester State College, M.S.N. University of Pennsylvania, Pennsylvania State University, Temple University

Samuel F. Klugman (1968) *Associate Professor of Psychology*
B.S., M.Sc.Ed. Temple University, Ph.D. University of Pennsylvania

Eugene C. Kolacki (1963) *Associate Professor of Health and Physical Education*
B.S. Brockport State College, M.S. Washington State University, University of Buffalo

Abe S. Kramer (1966) *Professor of Guidance and Counseling*
B.A., M.A., Ph.D. New York University

Jane M. Kramer (1968) *Instructor of Physical Education (Part-time)*
B.S., Ed.M. Temple University

Fritz K. Krueger (1961) *Assistant Professor of Voice*
A.B. Midland College, B.S., B.Mus. Wittenberg University, B.Mus. Curtis Institute of Music, M.Mus. Philadelphia Musical Academy

Alla S. Kuhlmann (1965) *Associate Professor of German*
M.A. University of Belgrade (Yugoslavia), Universite Catholique de Louvain (Belgium), University of Pennsylvania

Marianne H. Kulaski (1966) *Assistant Professor of French*
B.A. Ursinus College, University of Geneva (Switzerland), M.A. Villanova University

Alois H. Kulhanek (1961) *Assistant Professor of German*
B.S. Institute of Technology (Prague), M.A. University of Political and Social Science (Prague), Charles University (Prague)

Carrie C. Kulp (1958) *Assistant Professor of Elementary Education*
A.B. Wheaton College, M.Ed. University of Delaware, University of Pennsylvania

Daniel Lee Kuruna (1968) *Chairman, Department of Art, Professor of Art*
B.F.A. Carnegie Institute of Technology, M.A. University of Pittsburgh, Ed.D. Pennsylvania State University

MICHAEL LABUDA (1967) *Associate Professor of Elementary Education*
A.B. King's College, M.Ed. University of Delaware, Teachers College—Columbia University, University of California, University of Connecticut, University of San Francisco, Ed.D. University of Idaho

JOHN A. LANDER (1965) *Assistant to the Dean, School of Education, Professor*
B.A., A.M. Temple University, Ph.D. University of Pennsylvania

EVERETT A. LANDIN (1967) *Area Curriculum Coordinator, Professor*
A.B. M.Ed. Alfred University, Ed.D Pennsylvania State University

WILLIAM R. LANDRUM (1953) *Associate Professor of English*
B.A. Virginia Military Institute, M.A. Temple University, University of Oklahoma

GEORGE L. LANGDON (1956) *Professor of Geography*
B.S., M.S. Pennsylvania State University, Ph.D. Clark University

EMILE A. LANGLOIS (1967) *Resident Director, Junior Year Abroad, Assistant Professor of French*
Licence Sorbonne (Paris), C.A.P.E.T. Ecole Normal Superieure de L'Enseignement Technique (France), D.E.S. Sorbonne

KENNETH L. LAUDERMILCH (1968) *Instructor of Brass*
B.S. Lebanon Valley College, M.Mus. New England Conservatory of Music

HERBERT LEE (1968) *Assistant to the Director of Admissions, Supervisor of Elementary Teaching, Associate Professor*
B.S., M.Ed. West Chester State College, Temple University

F. WILLIAM LEEDS (1963) *Associate Professor of Urban Education*
A.B. Temple University, M.A. University of Pennsylvania, University of Pennsylvania

BARBARA R. LEIGHTON (1966) *Instructor of Health and Physical Education*
B.S. West Chester State College, West Chester State College

JAMES C. LEIGHTY (1968) *Assistant Professor of Health and Physical Education*
B.S., M.A. Western Michigan University, Michigan State University

JOHN D. LEMCKE (1965) *Associate Professor of Health and Physical Education*
B.S. Brockport State College, M.Ed. Temple University, Temple University

BARNEY F. LE VEAU (1966) *Associate Professor of Health and Physical Education*
B.S. Colorado University, R.P.T. Mayo Clinic, M.S. University of Colorado, University of Colorado

JOHN C. LEWIS (1967) *Assistant to the Dean of Undergraduate Studies, Assistant Professor of English*
B.S. West Chester State College, M.A. Villanova University, Pennsylvania State University, Temple University

Ronald P. Lombardi (1962) *Associate Professor of Spanish*
B.S., M.A. University of Pennsylvania, University of Pennsylvania, Teachers College of Connecticut

Melvin M. Lorback (1957) *Chairman, Department of Physical Education, Associate Professor of Health and Physical Education*
B.S. Brockport State College, M.S. Pennsylvania State University, Pennsylvania State University

E. Isabella McClure (1965) *Associate Professor of Secondary Education and Professional Studies*
B.S., M.Ed. Temple University, Temple University, Columbia University, University of Pennsylvania, Stanford University, University of Washington, University of Rhode Island

Joseph A. McDonald, Jr. (1968) *Documents Librarian, Assistant Professor*
B.A. Eastern Baptist College, M.S.L.S. Drexel Institute of Technology

James M. McDonnell (1953) *Interim Chairman, Department of Biology, Associate Professor of Biology*
A.B., M.A. Temple University, University of Connecticut

Elliott W. McDowell (1964) *Associate Professor of English*
A.B. Centre College, M.A. University of Wisconsin, Yale University, University of Illinois

Lynette F. McGrath (1968) *Assistant Professor of English (Part-time)*
B.A., M.A., Ph.D. University of Illinois

William McKendry (1967) *Assistant Professor of Secondary Education and Professional Studies (Part-time)*
B.A. Gettysburg College, M.S. Columbia University

David E. McKenty (1961) *Professor of English*
B.S. Temple University, M.A., Ph.D. University of Pennsylvania

Robert D. McKinney (1952) *Associate Professor of Art*
B.S. Edinboro State College, M.Ed. Pennsylvania State University, Pennsylvania State University, University of New Hampshire

Chester L. McTavish (1965) *Professor of Educational Media*
B.S. Juniata College, M.S., Ed.D. Pennsylvania State University

Peggy Jane Machtley (1965) *Cataloging Librarian, Instructor*
B.A. Wittenberg University

Saundra Manburg (1964) *Assistant Professor of Speech and Theatre*
B.A., M.A. Ohio State University

③Eli M. Mandelbaum (1964) *Associate Professor of Mathematics*
B.A. Temple University, M.A. University of Pennsylvania, University of Pennsylvania

JOHN B. MANNING (1968) *Associate Professor of Mathematics*
B.A., M.A. LaSalle College, M.A. Bowdoin College, Ph.D. Georgetown University

KATHERINE A. MARGERUM (1959) *Associate Professor of Health and Physical Education*
B.S. West Chester State College, Ed.M. Temple University, Temple University, University of Colorado

VERONICA MARIA (1967) *Instructor of Health and Physical Education*
B.S., M.Ed. Ohio University, Colorado College of Modern Dance.

EMIL M. MARKOW (1965) *Associate Professor of Voice*
B.S., M.A. Teachers College—Columbia University

MYLES MARTEL (1967) *Assistant Professor of Speech*
B.A. University of Connecticut, M.A. Temple University, Temple University

MARGARET Y. MARTINEZ (1967) *Associate Professor of Biology*
A.B. University of Pennsylvania, M.A. Columbia University, University of Pennsylvania Medical School, West Chester State College, University of Rhode Island, University of Pennsylvania

ROBERT G. MATHEWS, JR. (1967) *Assistant Professor of English*
B.A. Ohio State University, Bread Loaf School of English, M.A. Middlebury College

ROLAND H. MAYSON (1963) *Assistant Professor of English*
A. B. Wilmington College, M.A. Kent State University

ROBERT W. MEDEIROS (1968) *Associate Professor of Chemistry*
B.S. University of Maine, M.S., Ph.D. University of Delaware

HELEN M. MEHL (1967) *Assistant Professor of Art*
B.A. Stanford University, University of Hawaii, University of California at Los Angeles, M.A. San Jose State College

LAUREN B. MEISWINKEL (1967) *Assistant Professor of Speech*
B.S. Pennsylvania State University, B.D. Drew University, M.A. (History), M.A. (Rhetoric Public Address) Temple University

GABRIEL A. MENKIN (1968) *Associate Professor of English*
B.S. Temple University, M.S. University of Kansas City, University of Pittsburgh, Temple University

RICHARD C. MERRELL (1968) *Associate Professor of Music Education*
B.S. Lycoming College, M.Mus. Eastman School of Music, Columbia University, Temple University, Pennsylvania State University, West Chester State College

EMIL H. MESSIKOMER (1946) *Dean of Undergraduate Studies, Professor*
B.S. West Chester State College, M.A. Columbia University, Temple University

ROBERT K. MEYER (1968) *Associate Professor of Philosophy (Part-time)*
B.A. Lehigh University, B.D. Princeton Theological Seminary, Kyoto School (Japan), M.A., Ph.D. University of Pittsburgh

S. POWELL MIDDLETON (1935) *Assistant Professor of Music Theory and Composition/ Instrumental Music*
B.S. West Chester State College, M.S. Duquesne University

ROBERT J. MILLER (1968) *Associate Professor of English*
B.S. Wilkes College, M.A. Columbia University, University of Lausanne (Switzerland), University of Pennsylvania

STEPHANIE MILLER (1968) *Instructor of Music Education*
B.S., M.Ed. West Chester State College

FRANK E. MILLIMAN (1960) *Associate Professor of Mathematics*
B.N.S. College of Holy Cross, A.B. Hobart College, A.M. Columbia University, Columbia University

KEGHAM A. MISSISSYAN (1968) *Associate Professor of Secondary Education and Professional Studies*
Aleppo College (Syria), B.A. American University (Beirut), M.A. University of Pennsylvania

LLOYD C. MITCHELL (1936) *Dean, School of Music, Professor*
B.Mus., M.Mus. Peabody Conservatory of Music, Ed.D. Pennsylvania State University

ROBERT M. MITTEN (1953) *Professor of Health and Physical Education*
A.B., M.A. University of North Carolina, Ed.D. Temple University

PAUL M. MOISIADES (1967) *Associate Professor of English*
B.A. Lycoming College, M.A. Lehigh University

MICHAEL MONTEMURO (1965) *Professor of Mathematics*
B.A. LaSalle College, M.A. Temple University, Stanford University, Beloit College, Maryland University, Ed.D. Temple University

CLIFTON E. MORGAN (1956) *Associate Professor of History*
B.S. East Stroudsburg State College, M.A. Rutgers—The State University of New Jersey, University of Delaware

DOROTHY H. MORGAN (1967) *Curriculum Laboratory Librarian, Assistant Professor*
B.S. Immaculata College, Temple University, M.S.L.S. Villanova University

LARUE N. MORGAN (1961) *Cataloging Librarian, Instructor (Part-time)*
B.S. Millersville State College

MARY ANN MORGAN (1962) *Instructor of Elementary Education and in Laboratory School*
B.S. East Stroudsburg State College

③Elizabeth P. Morganthall (1961) *Supervisor of Elementary Student Teaching, Assistant Professor*
B.S. Elizabethtown College, M.Ed. Pennsylvania State University, Boston University

Ober Morning, Jr. (1967) *Associate Professor of Sociology*
B.A., M.A. Yale University, M.A. University of Pennsylvania

Ronald B. Morrow (1966) *Assistant Professor of Geography*
B.S., M.Ed. West Chester State College

Walena C. Morse (1968) *Assistant Professor of Psychology*
A.B. Duke University, M.A., Ph.D. Bryn Mawr College

Joseph G. Moser (1966) *Associate Professor of Mathematics*
B.S. Rose Polytechnic Institute, M.S. Purdue University, Bryn Mawr College

Shirley A. Munger (1968) *Associate Professor of Music History and Literature/ Music Theory and Composition/Piano*
B.A., M.A. University of Washington, D.M.A. University of Southern California, Conservatoire Nationale de Musique (France)

④Martin H. Murphy (1966) *Assistant Professor of Anthropology*
A.B. Edinboro State College, A.M. University of Michigan, University of Michigan

J. Bertrand E. Nadeau (1968) *Associate Professor of Psychology*
B.A. Yale University, Ph.D. University of Minnesota

Anne B. Nechas (1966) *Instructor of English*
B.A. Russell Sage College, M.A. University of Pennsylvania

Mary E. Nehlig (1967) *Assistant to the Director of Library Services, Assistant Professor*
A.B. Wilson College, M.S.L.S. Drexel Institute of Technology, Drexel Institute of Technology, Rutgers—The State University of New Jersey

Katharine D. Newman (1967) *Associate Professor of English*
B.S. Temple University, M.A., Ph.D. University of Pennsylvania

James Newton (1968) *Instructor of Art*
B.A. North Carolina College, M.F.A. University of North Carolina

Margaret Nolte (1968) *Guidance Counselor, Associate Professor*
B.A. State University of Iowa, M.A. University of Minnesota, Ph.D. State University of Iowa

Edward N. Norris (1958) *Professor of Health and Physical Education*
B.S. West Chester State College, University of Kansas, M.S. Medical College of Virginia, Michigan State University, Ed.D. Temple University

HAROLD NOVICK (1967) *Assistant Professor of Sociology (Part-time)*
B.S.S. College of the City of New York, M.S.S.W. Columbia University School of Social Work, Teachers College—Columbia University

BENJAMIN NUNEZ (1967) *Associate Professor of Spanish*
B.Th. Theological Seminary (Argentina), A.M., Ph.D. Columbia University

ROBERT P. NYE (1968) *Instructor of Physical Education*
B.S., M.Ed. West Chester State College

PAUL G. O'GRADY (1967) *Assistant Professor of History*
B.A., M.A. Trinity College—University of Dublin, University of Delaware

WILLIAM R. OVERLEASE (1963) *Professor of Biology*
B.S., B.S.F., M.S., Ph.D. Michigan State University

REYNOLD D. PAGANELLI (1967) *Associate Professor of Secondary Education and Professional Studies*
B.S. Bloomsburg State College, M.A. Catholic University, C.A.S. Johns Hopkins University

CHARLES W. PAGANO (1967) *Assistant Professor of Health and Physical Education*
B.S. West Chester State College, M.Ed. Ohio University

WILLIE E. PAGE, JR. (1967) *Associate Professor of English*
A.B. East Carolina College, M.A. Florida State University, Pennsylvania State University

JEAN PIERRE PAILLET (1968) *Assistant Professor of Mathematics*
Lycee du Parc (France), University of Aix-en-Provence, Ecole Nationale Superieure de l'Aeronautique, University of Paris, University of Pennsylvania

STEPHEN J. PARKER (1968) *Associate Professor of English*
B.A. Ohio University, M.A., M.F.A. University of Iowa, Ph.D. Ohio University

SUSAN B. PARKINSON (1968) *Instructor of Physical Education*
B.S. Pennsylvania State University, West Chester State College

ARTHUR PARRIS (1964) *Professor of Music History and Literature/Piano*
B.S. Juilliard School of Music, Paris Conservatory, M.A., Ph.D. Bryn Mawr College

CHARLES W. PATTERSON (1946) *Associate Professor of Secondary Education and Professional Studies*
B.S. Shippensburg State College, M.Ed. Duke University, University of Pennsylvania

MICHAEL A. PEICH (1968) *Instructor of English*
B.A. Wartburg College, M.A. University of Pennsylvania

ROBERT E. PENNINGTON (1966) *Associate Professor of Piano*
B.Mus., M.Mus. Northwestern University, Indiana University, Mus.D. Northwestern University

Austin O. Perego (1968) *Associate Professor of Speech and Theatre*
B.F.A. Drake University, M.A. University of Iowa, University of Iowa

Erminio J. Peta (1967) *Associate Professor of Elementary Education*
B.S. Kutztown State College, M.Ed. University of Florida, Lehigh University

Frank E. Peterson (1962) *Associate Professor of Speech and Speech Pathology and Audiology*
B.S. Edinboro State College, M.A. Columbia University

Shirley T. Pethes (1968) *Associate Professor of Piano*
Artist Diploma University of Toronto, M.M. Indiana University

Ruth B. Petkofsky (1968) *Assistant Professor of Elementary Education*
A.B. Hunter College, M.A. University of Minnesota, West Chester State College

Frederick C. Pflieger (1961) *Chairman, Department of Music Education, Associate Professor of Music Education*
B.S. West Chester State College, M.Mus. University of West Virginia, Eastman School of Music—University of Rochester

Harry W. Pfund (1967) *Professor of German (Part-time)*
A.B. Haverford College, A.M., Ph.D. Harvard University, University of Munich (Germany)

Thomas W. Platt (1968) *Associate Professor of Philosophy*
B.A. Washington and Jefferson College, M.A. University of Pittsburgh, Ph.D. University of Pennsylvania

Margaret Plemmons (1968) *Instructor of Physics (Part-time)*
B.A. George Washington University, George Washington University, West Chester State College

Jack Porter (1968) *Associate Professor of Psychology*
B.S., M.Ed., Ed.D. Temple University

Elizabeth H. Pottieger (1965) *Assistant Professor of Psychology*
B.A. Albright College, M.A. Temple University, West Chester State College

Sandra F. Pritchard (1967) *Assistant Professor, Laboratory School*
B.S., M.Ed. West Chester State College

Julia Puerta (1968) *Assistant Professor of Spanish*
B.S. Escuela Magisterio (Leon, Spain) B.A. University of Madrid, Consejo Superior Investigaciones Cientificas (Madrid), M.A. University of Pennsylvania, University of Pennsylvania

Michael R. Rachinsky (1968) *Associate Professor of Chemistry*
B.S. Fordham University, Ph.D. Purdue University

William J. Rahn (1965) *Associate Professor of Guidance and Counseling*
B.S. Villanova University, M.Ed. Temple University, Temple University

WILLIAM J. RAMPON (1967) *Associate Professor of Geography*
B.A. Indiana State College, M.A. University of Oklahoma, University of Pittsburgh, University of Northern California

WILLIAM J. RARICK (1968) *Instructor of Art*
B.A. Philadelphia College of Art, M.F.A. Tyler School—Temple University

LESTER N. RECKTENWALD (1962) *Associate Professor of Guidance and Counseling*
B.S., M.A. University of Minnesota, University of Wisconsin, Columbia University

DAVID L. REDMOND (1963) *Associate Professor of Educational Media*
B.S. West Chester State College, Pennsylvania State University, M.S. Syracuse University

GEORGE F. REED (1966) *Associate Professor of Physics*
B.S. St. Joseph's College, Pennsylvania State University, William and Mary College, Franklin and Marshall College, M.S. University of Pennsylvania

N. RUTH REED (1953) *Associate Professor of Health and Physical Education*
B.S. East Stroudsburg State College, M.Ed. Pennsylvania State University, University of Delaware

THOMAS G. REED (1967) *Instructor, Laboratory School*
B.S. West Chester State College, Temple University, Pennsylvania State University

ROBERT W. REESE (1951) *Director of Athletics, Assistant Professor*
B.S. East Stroudsburg State College, M.S. University of Pennsylvania, Temple University

RUSSELL E. REIS, JR. (1967) *Instructor of Educational Media*
B.S. West Chester State College, West Chester State College

BARRY G. REMLEY (1968) *Instructor of Health and Physical Education (Part-time)*
B.S. West Chester State College

FRANCIS J. REYNOLDS (1961) *Acting Chairman, Department of Chemistry, Professor of Chemistry*
B.S. Pennsylvania State University, Ph.D. University of Pennsylvania

RUSSELL K. RICKERT (1956) *Chairman, Department of Physics, Professor of Physics*
B.S. West Chester State College, M.S. University of Delaware, Ed.D. New York University

WALTER N. RIDLEY (1968) *Chairman, Department of Secondary Education and Professional Studies, Professor of Education*
A.B., M.A. Howard University, University of Minnesota, Ohio State University, Ed.D. University of Virginia

DONN C. RILEY (1966) *Associate Professor of History*
A.B., M.A., Ph.D. St. Louis University

ROBERT D. RIMEL (1966) *Assistant Professor of English*
B.S. West Chester State College, M.A. University of Delaware, University of Delaware

②FRANCES W. RING (1960) *Assistant Professor of Art*
B.S. Columbia University, Ed.M. Temple University

STANLEY RIUKAS (1968) *Associate Professor of Philosophy*
A.B. Classical Gymnasium (Lithuania), Ph.B., Th.B., Ph.L. Loyola University, Columbia University, Ph.D. New York University

SARAH E. RIVOIR (1964) *Head, Library Reference Department, Assistant Professor*
B.S. Temple University, M.L.S. Drexel Institute of Technology

③ALFRED D. ROBERTS (1959) *Chairman, Department of Foreign Languages, Professor of French*
B.A. Ursinus College, M.A., Ph.D. University of Pennsylvania

ROBERT E. ROMANELLI (1964) *Assistant Professor of English*
B.A. Columbia Union College, M.A. Villanova University, Temple University

RONALD F. ROMIG (1967) *Assistant Professor of Biology*
B.S. Bloomsburg State College, M.Ed. University of Delaware, Pennsylvania State University

MILDRED E. ROSS (1968) *Associate Professor of Elementary Education*
B.S. West Chester State College, M.S., Ed.D. Pennsylvania State University, Temple University

SARA L. ROWE (1963) *Instructor of English*
A.B. Dickinson College, Drexel Institute of Technology

PHILIP B. RUDNICK (1968) *Associate Professor of Chemistry*
B.A. Yeshiva University, B.A., Ph.D. Rutgers—The State University of New Jersey

GLENN W. SAMUELSON (1955) *Professor of Sociology*
A.B. Wheaton College, M.R.E. Eastern Baptist Theological Seminary, Ed.D. University of Maryland, University of Pennsylvania, Temple University

HARRY G. SCHALCK (1964) *Professor of History*
A.B. Ursinus College, M.A., Ph.D. Clark University

ANNE M. SCHAUB (1929) *Assistant Professor of Health and Physical Education*
B.S., M.A. Columbia University

ROBERT SCHICK (1961) *Professor of Music History and Literature/Piano*
B.A. Swarthmore College, M.A. Columbia University, A.Mus.D. Eastman School of Music, University of Rochester

GEORGE A. SCHMIDT, JR. (1968) *Assistant Dean of Men, Assistant to the Director of Placement Services, Assistant Professor*
B.A. Montclair State College, M.A. New York University, Temple University, North Dakota State University

RICHARD A. SCHNEIDER (1967) *Assistant Professor of German*
University of Tubingen (Germany), University of Heidelberg (Germany), University of Barcelona (Spain), University of Erlangen (Germany), University of Frankfurt (Germany), University of Montpellier (France)

DORIS R. SCHOEL (1963) *Assistant Professor of Nursing*
R.N. Bryn Mawr Hospital, B.S. in Nursing Villanova University, M.S. in Ed. University of Pennsylvania

EUGENE W. SCHOOLER (1961) *Professor of Economics*
B.S. Fort Hays Kansas State College, M.B.A. University of Kansas, A.M., Ph.D. Harvard University

NEIL SERPICO (1967) *Associate Professor of Health and Physical Education*
B.A. University of New Hampshire, Ed.M. Boston University, University of Alabama

ANNE SESSA (1968) *Assistant Professor of History*
B.A. Swarthmore College, Columbia University, University of Delaware

WILLIAM H. SEYBOLD, JR. (1967) *Associate Professor of Mathematics*
B.S. Temple University, M.A. Northwestern University, University of San Francisco, Montclair State College, University of Utah

HAROLD E. SHAFFER (1952) *Associate Professor of History*
A.B. Susquehanna University, Litt.M. University of Pittsburgh, Pennsylvania State University

FAYE F. SHAW (1967) *Instructor of Chemistry (Part-time)*
B.S. University of California, University of Buffalo, West Chester State College

JOHN C. SHEA (1967) *Associate Professor of Political Science*
B.A. Allegheny College, M.A. University of Pennsylvania, University of Pittsburgh

NORMAN L. SHEETS (1967) *Dean, School of Health and Physical Education, Professor*
A.B. Glenville State College, M.S., Ed.D. West Virginia University

JANE E. SHEPPARD (1953) *Associate Professor of Music Theory and Composition*
B.Mus. Westminster College, Juilliard School of Music, M.A. Columbia University

ROBERT R. SHINEHOUSE (1966) *Assistant Professor of Psychology*
B.S. Ursinus College, M.A. Temple University, University of Pennsylvania

MARGARET SHIVERS (1968) *Assistant Professor of Physics (Part-time)*
B.A., M.A. Duke University

MARY L. SHOAF (1966) *Associate Professor of Physics*
B.A. The Cardinal Stritch College, M.S. University of California, Ph.D. Purdue University

IRENE G. SHUR (1956) *Associate Professor of History and Elementary Education*
B.S. Ohio State University, M.Ed. University of Delaware, University of Pennsylvania

BERNARD F. SIEGEL (1967) *Assistant to the Dean of Faculty and Academic Affairs, Associate Professor*
B.S. Pennsylvania State University, M.A. University of Pennsylvania, Bucknell University, University of Maryland

LINDA R. SILVERMAN (1968) *Instructor of Elementary Education*
B.S. Wheelock College, M.S. West Chester State College

CAROLYN G. SIMMENDINGER (1958) *Associate Professor of Art*
B.S. Kutztown State College, M.F.A. Temple University, Pennsylvania State University

HAROLD L. SKELTON (1968) *Assistant Professor of Physics*
B.S. Case Institute of Technology, M.S. University of Delaware

WILLIAM C. SKILLEN (1947) *Assistant to the Dean of Graduate Studies, Associate Professor of Biology*
B.S. Temple University, M.S. University of Pennsylvania, Temple University

KENNETH C. SLAGLE (1938) *Dean, College of Arts and Sciences, Professor*
A.B. Mount Union College, M.A., Ph.D. University of Pennsylvania

JUDITH A. SMILEY (1968) *Instructor of Physical Education*
B.S. Ursinus College, West Chester State College

ELIZABETH L. SMITH (1967) *Associate Professor of English*
B.A. Blue Mountain College, M.S. University of Southern Mississippi, Morehead State University

FRANK A. SMITH (1964) *Assistant Professor of Physics*
B.S. Villanova University, M.A. Temple University

JAMES E. SMITH (1967) *Associate Professor of Violin*
B.Mus., M.Mus. Eastman School of Music, Eastman School of Music

③JANE G. SMITH (1955) *Associate Professor of English*
B.S. Millersville State College, M.Ed. Pennsylvania State University, M.L.S. Columbia University

LIDA NELSON SMITH (1966) *Assistant Professor of Health and Physical Education*
A.B. Bard College, University of Wisconsin, M.A. Sarah Lawrence College

PHILIP D. SMITH, JR. (1967) *Director—Language Project, Professor of Spanish*
B.A. George Pepperdine College, M.A. University of Nevada, Ph.D. Ohio State University

ROBERT F. SMITH (1965) *Associate Professor of English*
B.S. St. Joseph's College, M.A. University of Notre Dame, University of of Pennsylvania

Norbert C. Soldon (1963) *Associate Professor of History*
B.A., M.A., Pennsylvania State University, University of Delaware

H. Lee Southall (1967) *Assistant Professor of Brass*
B.S. West Chester State College, M.A. Trenton State College

John A. Spangler (1968) *Instructor of Health and Physical Education (Part-time)*
B.S. Slippery Rock State College, West Chester State College

Joseph M. Spiecker (1968) *Assistant Professor of Educational Media*
B.S. West Chester State College, M.S. Temple University, West Chester State College

Anne Spiesz (1968) *Assistant Dean of Women, Instructor*
A.B. University of Michigan, M.A. University of Iowa

Charles A. Sprenkle (1955) *Associate Dean for Graduate Studies, School of Music, Associate Professor*
B.S. Johns Hopkins University, B.Mus., M.Mus. Peabody Conservatory of Music, University of Pennsylvania

Byron W. Sprock (1968) *Instructor of Health and Physical Education (Part-time)*
B.S. West Chester State College

Benjamin L. Stackowski (1968) *Assistant Professor of Health and Physical Education (Part-time)*
B.S., M.Ed. Temple University

Ruth S. Stanley (1959) *Assistant Professor of Mathematics*
B.S., M.A. University of Oklahoma

Jay P. Steinmetz (1967) *Assistant Professor of Educational Media*
B.S. Millersville State College, M.Ed, West Chester State College

John Robert Steinmetz (1965) *Associate Professor of Health and Physical Education*
B.S., M.Ed. Temple University

Richard L. Strayer (1956) *Director, Educational Media Services, Professor of of Educational Media*
B.S. West Chester State College, M.Ed. University of Delaware, Ed.D. Temple University

Frederick R. Struckmeyer (1966) *Associate Professor of Philosophy*
B.A. King's College (New York), A.M., Ph.D. Boston University

Charles H. Stuart (1968) *Associate Professor of History*
B.A. Houghton College, M.A. Bradley University, Pennsylvania State University, Boston University

③R. Godfrey Studenmund (1956) *Director of Admissions, Associate Professor*
B.S. Shippensburg State College, Ed.M. Temple University

②Russell L. Sturzebecker (1946) *Professor of Health and Physical Education*
B.S. West Chester State College, Ed.M., Ed.D. Temple University

Sandra J. Stutzman (1967) *Assistant Professor of Health and Physical Education*
B.S. East Stroudsburg State College, Bloomsburg State College, University of Colorado, Temple University

James D. Sullivan (1967) *Instructor of Music Theory and Composition*
B.S. West Chester State College, M.A. Eastman School of Music

Vincent V. Suppan (1964) *Associate Professor of Speech and Speech Pathology and Audiology*
B.S. West Chester State College, M.A. Columbia University

Jane B. Swan (1965) *Professor of History*
B.A. Swarthmore College, M.A., Ph.D. University of Pennsylvania

Roy D. Sweet (1953) *Chairman, Department of Voice and Choral Music, Associate Professor of Voice and Choral Music*
B.S. Fredonia State College, M.Mus. Eastman School of Music, University of Rochester, Temple University

Julian M. Swiren (1964) *Associate Professor of Guidance and Counseling*
B.S., M.S. University of Pennsylvania, Temple University

Patrick J. Sylvester, Jr. (1968) *Associate Professor of Economics*
B.A. St. Francis Xavier University, M.A. University of New Brunswick, M.A. University of Pennsylvania, Bryn Mawr College

③William A. Talley (1959) *Supervisor of Elementary Student Teaching, Associate Professor*
B.S. West Chester State College, M.Ed. Harvard University

③Elinor Z. Taylor (1955) *Assistant Dean of Women, Associate Professor*
B.S. West Chester State College, Columbia University, Ed.M. Temple University, Temple University

S. Keith Taylor (1968) *Associate Professor of English*
B.A. Ursinus College, M.A. University of Pennsylvania, Ed.D. Temple University

George M. Thomas (1966) *Associate Professor of Secondary Education and Professional Studies*
B.S. West Chester State College, M.Ed. University of Delaware, Temple University

Powell S. Thomas (1946) *Professor of English*
B.A. Gettysburg College, A.M., Ph.D. University of Pennsylvania

Andrew R. Thompson (1965) *Associate Professor of Geography*
B.S., M.Ed. West Chester State College, Pennsylvania State University, University of Pennsylvania

James C. Thomson (1968) *Chairman, Department of Music History and Literature, Professor of Music History and Literature*
A.B. Middlebury College, Federal Music Academy (Berlin), M.A. Baylor University, M.A. Yale University, Ph.D. New York University

Joseph M. Thorson (1968) *Chairman, Department of Economics and Business Professor of Economics*
L.L.M. University of Lwow (U.S.S.R.) M.A. Seton Hall University, Ph.D. Indiana University

David G. Thurbon (1963) *Assistant Professor of English*
A.B., M.Litt. University of Pittsburgh

Thomas W. Treadwell (1968) *Assistant Professor of Secondary Education and Professional Studies*
B.A. Morris Harvey College, M.S. University of Bridgeport, Pennsylvania State University, Moreno Institute and Academy

Willard J. Trezise (1938) *Dean of Graduate Studies, Professor*
B.S. Lebanon Valley College, M.S., Ph.D. Johns Hopkins University

Milan Trnka (1962) *Assistant Professor of Health and Physical Education*
A.B. Syracuse University, M.S. University of Illinois

Shannon M. Troy (1966) *Head, Library Acquisitions Department, Assistant Professor*
B.A. Nazareth College of Rochester, A.M. University of Rochester, M.L.S. Rutgers—The State University of New Jersey

John J. Turner, Jr. (1965) *Professor of History*
A.B. Muhlenberg College, M.A. University of Rhode Island, Ph.D. Columbia University

③Edward T. Twardowski (1951) *Director of Placement Services, Professor*
B.S. West Chester State College, M.S. University of Pennsylvania, Ed.D Temple University

Joy Vandever (1964) *Assistant Professor of Voice/Theory and Composition*
B.S., M.Ed. West Chester State College

Marjorie D. Veleta (1966) *Instructor of Flute (Part-time)*
B.A. New Mexico Highlands University, Northwestern University, West Chester State College

Richard K. Veleta (1965) *Professor of Piano*
B.Mus., M.Mus., D.M. Northwestern University, University of Colorado

C. Ralph Verno (1966) *Associate Professor of Mathematics*
B.A. University of Pittsburgh, B.D. Westminster Seminary, Ashland College, Lehigh University, M.S. in Ed. University of Pennsylvania

G. Alan Wagner (1967) *Assistant Professor of Voice*
B.Mus. Northwestern University, M.F.A. Carnegie Institute of Technology

MARGARET F. WALKER (1966) *Cataloging Librarian, Assistant Professor*
A.B. Wilson College, M.L.S. Rutgers—The State University of New Jersey

SHIRLEY ANN WALTERS (1963) *Supervisor of Secondary Student Teaching, Assistant Professor*
B.S. Millersville State College, M.A. University of Michigan, Purdue University, Bucknell University

JOHN W. WARD (1961) *Associate Professor of English (Part-time)*
A.B., M.A. Miami University

ROBERT C. WARKOMSKI (1968) *Associate Professor of Speech and Speech Pathology and Audiology*
B.A. Bloomsburg State College, M.S. Pennsylvania State University, Pennsylvania State University

MARTIN A. WATKINS (1967) *Associate Professor of English*
B.A. University of North Carolina, M.A. Indiana University, University of Pennsylvania

③RICHARD P. WEAGLEY (1954) *Professor of Educational Media*
B.S. Lebanon Valley College, M.Ed., Ed.D. Pennsylvania State University

CAROL WEBER (1966) *Instructor of Health and Physical Education*
B.S. Temple University, University of Maryland

RICHARD J. WEBSTER (1967) *Associate Professor of History*
A.B. Lafayette College, M.A. University of Delaware, A.M. University of Pennsylvania

SUSAN W. WEBSTER (1967) *Assistant Professor of Biology*
A.B. Bucknell University, M.A. West Chester State College

RUTH I. WEIDNER (1967) *Music Librarian, Instructor*
B.A. Hood College, M.S.L.S. Drexel Institute of Technology

NAOMI L. WEISS (1967) *Associate Professor of Piano*
B.S., M.S. Juilliard School of Music, Bard College

ROBERT H. WEISS (1967) *Associate Professor of English*
A.B. University of Pennsylvania, M.A. Temple University

SOL WEISS (1964) *Associate Professor of Mathematics*
B.S. Brooklyn College, M.A. Columbia University, University of Southern California, Temple University, University of Pennsylvania

JAMES R. WELLS (1968) *Associate Professor of Trumpet/Music History and Literature*
B.S. West Chester State College, M.Ed. Temple University, Professional Diploma Columbia University

Theodora Lee West (1963) *Professor of English*
B.A. University of Akron, M.A. Ohio State University, University of London, Ph.D. University of Pittsburgh

Linwood J. White (1968) *Assistant Professor of Art*
B.F.A. The Maryland Institute College of Art, M.F.A. University of Pennsylvania

Jane P. Whitten (1968) *Assistant Professor of Piano/Music History and Literature (Part-time)*
B.S. Johns Hopkins University, B.Mus., M.Mus. Peabody Conservatory of Music

W. Benjamin Whitten (1959) *Associate Professor of Piano/Music History and Literature*
B.Mus., M.Mus. Peabody Conservatory of Music

Paul R. Widick (1967) *Associate Professor of Physics*
B.A., M.Ed. Wayne State University, Northern Illinois University, M.S. Eastern Michigan University

Mark F. Wiener (1965) *Assistant Professor of Mathematics*
B.S. West Chester State College, A.M. University of Illinois

Harry Wilkinson (1948) *Professor of Music Theory and Composition/Organ*
B.S., Ed.M. Temple University, Ph.D. Eastman School of Music—University of Rochester

Lloyd C. Wilkinson (1960) *Associate Professor of Health and Physical Education*
B.S. West Chester State College, M.A. University of Miami, Villanova University

Ardis M. Williams (1967) *Associate Professor of Chemistry*
A.B. Mount Holyoke College, A.M. Vassar College, Columbia University

Edwin L. Williams (1968) *Instructor of Philosophy (Part-time)*
B.A. West Chester State College, University of Mexico

Lois M. Williams (1955) *Associate Professor of Music History and Literature/Voice and Choral Music*
B.Mus. Western Michigan University, Hochschule fur Musik (Germany), M.A. Columbia University, Indiana University

Thomas B. Williams (1961) *Director, Guidance and Counseling, Professor*
B.S. Salisbury State Teachers College, Ed.M., Ed.D. Temple University

Edward P. Wilson, Jr. (1967) *Instructor, Laboratory School*
B.S. West Chester State College, West Chester State College

John M. Wintermute (1966) *Associate Professor of Health and Physical Education*
B.S. Ithaca College, Ed.M. State University of New York at Buffalo, State University of New York at Buffalo

ROSEMARIE B. WIRTH (1968) *Assistant Professor of Mathematics and Computer Science*
B.A. St. Joseph's College, M.Ed. Rutgers—The State University of New Jersey

JACK E. WISE (1968) *Associate Professor of English*
B.S., M.Ed. Shippensburg State College, West Virginia University, University of Pittsburgh

CONSTANCE W. WOLFE (1968) *Instructor of Biology (Part-time)*
B.A. Western Maryland College, University of Pennsylvania

RICHARD I. WOODRUFF (1966) *Assistant Professor of Biology*
B.S. Ursinus College, M.Ed, West Chester State College

RONALD B. WOODS (1967) *Instructor of Health and Physical Education*
B.S. East Stroudsburg State College, M.S. University of Massachusetts

③JAMES J. WRIGHT (1945) *Chairman, Department of Music Theory and Composition, Professor of Music Theory and Composition*
B.S. West Chester State College, Ed.M. Temple University, Ph.D. Eastman School of Music—University of Rochester

DOROTHY I. YANISCH (1947) *Associate Professor of Health and Physical Education*
B.S. West Chester State College, Ed.M. Temple University

DANIEL YEH (1968) *Cataloging Librarian, Instructor*
B.A. National Taiwan University, M.S. Drexel Institute of Technology

RICHARD B. YODER (1962) *Associate Professor of Health and Physical Education*
B.S. West Chester State College, M.S. Villanova University, Temple University

EDWIN L. YOUMANS (1960) *Associate Dean for Graduate Studies, School of Health and Physical Education, Professor*
B.A. State College of Iowa, M.A., Ph.D. University of Iowa

ALEXANDER J. YOUNG, JR. (1966) *Associate Professor of Health and Physical Education*
B.S. West Chester State College, M.A., Ph.D. University of Maryland

ROBERT J. YOUNG (1965) *Associate Professor of History*
B.S. Temple University, M.A. University of Pennsylvania, University of Pennsylvania

ELSIE B. ZIEGLER (1965) *Juvenile Room Librarian, Associate Professor*
B.S. Elizabethtown College, M.S.L.S. Villanova University

EMERITI PROFESSORS

George Cressman, *Education*
Katherine M. Denworth, *Education*
Marion Farnham, *Art*
Robert B. Gordon, *Sciences*
Thomas J. Heim, *Social Sciences*
Muriel Leach, *Health and Physical Education*
Dorothy Ramsey, *English*
Gertrude Schmidt, *Music*
Earle C. Waters, *Health and Physical Education*
Josephine E. Wilson, *English*
Edward Zimmer, *Music*

WEST CHESTER STATE COLLEGE ALUMNI ASSOCIATION OFFICERS (1968 - 1969)

Donald S. Pitt, *President*	West Chester
Milton Blitz, *Vice-President*	Drexel Hill
Janice W. Etshied, *Secretary*	Camp Hill
Norman D. George, *Treasurer*	West Chester
Geneva B. Herzog, *Acting Executive Director*	West Chester

INDEX

Absence, from classes, 54, 55
Academic dismissal, 51
Academic distinction, 53
Academic information, 48
Academic probation, 51
Accounting,
  see Business Administration
Accreditation of the College, II
Achievement tests, 12
Administrative Officers, 238
Administrative personnel, 240
Admission, 11
  acceptance form, 18
  advanced credit requirement, 17
  of college graduates seeking certification, 15, 57
  early, 19
  pre-admission policy, 18
  readmission, 14, 52
  request for application forms, *last page of catalogue*
  transfer students, 16
Advanced placement program, 56
All-Star Course, 42
Alpha Phi Omega, 45
Alpha Psi Omega, 44, 45
Alpha Sigma Phi (Alphite Society), 45
Alumni, 10
  Officers, 274
American Studies program, 121
Anthropology
  B.A. in Sociology-Anthropology, 118
  course descriptions, 229
  faculty, 118
Armed Services (Reserve Officer Candidate) program, 58
Art
  B.A. degree, 66
  course descriptions, 151
  faculty, 66
Astronomy, see physics
  courses, 221
Athletic programs
  men, 140
  women, 140
Attendance, class, 54
Auditing privileges, 50
  fee for, 23
Automobile regulations, 35
Baha'i Club, 45
Biology
  B.A. degree 89
  B.S. in Education, 90
  course descriptions, 154
  faculty, 89
Board of Trustees, V
Bookstore, 36
Bureau of Educational Media Services, 5
Bureau of Research and Related Services, 6
Business Administration
  B.S. degree 106, 107
  course descriptions, 161
  faculty, 106
Business Law, see Business Administration
Calendar, College, VI
Campus expansion, 4
Certificates (College), 58
  extension of, 59
Certification, permanent and provisional, 58
  in other states, 60
Chamber Music Series, 42
Chemistry
  B.A. degree, 92
  B.S. in Education, 93
  course descriptions, 157
  faculty, 92
Christian Science Association, 45
Cinema Club, Campus, 42
Class attendance, 54
Class dues, 25
Class load, 54
  for veterans, 54
Classification of students
  academic, 48
  administrative, 34
  by College program, 49
Coaches, listed, 138
College of Arts and Sciences, 64
College Entrance Examination Board, 12
  its scholarship service, 28
College Film Library, 5
College Scholarship Service, 28
Communications Directory, *inside front cover*
Commuting students, 34, 35
Comprehensive English, 71
Comprehensive Science
  B.S. in Education, 100
Computer Science
  course descriptions, 206
  sub-concentrations in B.A. in mathematics, 95
  sub-concentrations in B.S. in Education (mathematics), 96
Council of Higher Education, V
Councils (Residence Hall, men and women, and Day Students, men and women), 40
  dues, 25
Course descriptions, 151
Cultural Affairs, Office of, 8

Credit by examination, 55
Curricula offered, 62
Data processing services, 6
Day students, 34
Dean's Lists, 53
Degrees offered, 1, 61
  requirements for, 61
Delaware-Chester Regional Instructional Materials Center, 6
Dental Hygienist cooperative degree program, 103
Department of Public Instruction, V
Dining accommodations, 36
Dismissal from the College
  for academic reasons, 51
  for violation of regulations, 35
Division of Arts and Letters, 64, 66
Division of Sciences and Mathematics, 64, 89
Division of Social Sciences, 64, 105
Dues
  class, 25
  Council, 25
Earth and Space Science
  B.S. in Education, 101
  course descriptions, 159
Economics
  B.A. degree, 106
  course descriptions, 161
  faculty, 106
Education, School of, 124
  course descriptions, 165
  faculty, 124
Educational Development Center, 6
Educational Media Services, Bureau of, 5
Elementary Education
  B.S. in Education, 125
  course description, 165
  faculty, 124
Emeriti professors, 274
Employment, student, 32
English
  B.A. degree, 69
  B.S. in Education, 71
  course descriptions, 168
  faculty, 69
English Composition Achievement Test, 12
European Study
  Division of Social Sciences Summer Tour, 8
  Junior Year Abroad (study in French), 8, 80
Expenses, 20
  summaries of expenses by year and curriculum. 26
Extracurricular program, 40
Faculty
  by department, see the department in Programs of Study
  directory, 241
  by Schools, see Schools of Education, Health and Physical Education, and Music
Fees, 20
Fellowships, applying for at other institutions, 31
Film Library, The College, 5
Financial aid, to students, 28
Foreign Languages
  B.A. degree, 73
  B.S. in Education, 77
  course descriptions, 173
  faculty, 73
  Junior Year Abroad Program, 8, 80
Francis Harvey Green Library, 5
Fraternities
  honor, 45
  social, 46
French, see Foreign Languages
Friars Society, The, 45
Gamma Theta Upsilon, 45
General Requirements for all curricula, 63
Geography
  B.A. degree, 109
  B.S. in Education, 110
  course descriptions, 183
  faculty, 109
Geology, see Earth and Space Science course descriptions, 159
German, see Foreign Languages
Grading system, 49
Graduate assistantships, applying for at other institutions, 31
Graduate studies, 9
Graduation requirements
  summarized, 57
  for a particular field consult the field
Graduation, student responsibilities in anticipation of, 57
Greek, see Foreign Languages
Guests, overnight, 36
Guidance and Counseling Center, 37
Guidance and Counseling program (graduate), 137
Handbook, The, 44
Health and Physical Education, School of, 138
  admission, 139
  B.S. in Health and Physical Education, 141
  certification program in education for safe living, 144
  course descriptions, 188
  faculty, 138
  men's intercollegiate and intramural athletic programs, 140
  recreation leadership program, 144
  women's intercollegiate and intramural athletic programs, 140

Health service, 37
Higher Education
Opportunity
program (HEOP), 7
Highway safety education,
certification in, 144
Hillel Foundation, 45
History
B.A. degree, 112
B.S. in Education degree, 113
course descriptions, 198
faculty, 112
History of the College, 2
Honor societies, 45
Honors, academic, 53
Honors Program, 53
Identification (ID) cards, 25
Independent housing, 34
Insurance, 37
Intercollegiate athletics
men, 140
women, 140
Interdisciplinary programs, 65
B.A. degree in American
Studies, Latin-American Studies,
or Russian Studies, 121
Inter-Varsity Christian Fellowship, 45
Intern teaching program, 57
Intracollegiate Governmental
Association, 39
evening program series, 42
activities fee, 24
Italian, see Foreign Languages
Junior Chamber of Commerce, 45
Junior Year Abroad Program, 8, 80
Kappa Delta Pi, 46
Lambda Chi Alpha, 47
Latin, see Foreign Languages
Latin-American Studies program, 122
Library, 5
Literature, see English
Little Theatre, 44
Loans, student, 31
Location of the College, 3
Lutheran Students Association, 45
Management, see Business
Administration
Map, campus, *inside back cover*
Married students, finding housing
for, 35
Mathematics Honor Society, 46
Mathematics
B.A. degree, 94
B.S. in Education, 96
course descriptions, 203
faculty, 94
Medical services, 37
Minimum academic standards,
maintaining, 50
Montpellier Program (Junior Year
Abroad) 8, 80
Music, School of, 145
Bachelor of Arts in Music, 149
Bachelor of Music, 149
B.S. in Music Education, 147
concerts and recitals, 42, 43
course descriptions, 208
entrance requirements, 146
faculty, 145
musical organizations on campus, 43
N.A.A.C.P., campus
chapter, 29
Newman Club, 45
Off-campus residence, 34
Parents
Parents' Confidential
Statement, 28
reports to parents, 53
Permanent college certificate, 59
Phi Alpha Theta, 46
Phi Epsilon Kappa, 46
Phi Epsilon Pi, 47
Phi Mu Alpha, 46
Philips (William Pyle) Lecture
Foundation, 42
Philosophy
B.A. degree, 81
course descriptions, 219
faculty, 81
Physics
B.A. degree, 98
B.S. in Education, 99
course descriptions, 221
faculty, 98
Pi Gamma Mu, 46
Pi Lambda Phi 47
Placement services, 38
Political Science
B.A. degree, 115
course descriptions, 223
faculty, 115
Post Office, campus, 36
Pre-admission policy, 18
Probation, 51
Professional clubs and organi-
zations, 45
Professional requirements in secondary
education, 133
Programs of Study, 61
Provisional college certificate, 58
Psi Chi, 46
Psychology
B.A. degree, 117
course descriptions, 225
faculty, 117
Public school Nursing
cooperative degree program, 103
course descriptions, 227
faculty, 104
Publications (student), 44
Purposes of the College, 1
Quad Angles, 44
Radio station WCSC, 45

Ram's Horn, The, 44
Readmission, 52
Recreation leadership program, 144
Religious organizations, 41, 45
Remedial instruction, 54
Repeating courses, 51
Reports to Parents, 53
Research and Related Services,
Bureau of, 6
Reserve Officer Candidate Program, 58
Residence halls, 34, 35
Resident credit requirement, 56
Resident students, 34, 35
ROC (Reserve Officer Candidate
Program), 58
Russian, see Foreign Languages
Russian Studies program, 123
Safety education, certification in, 144
SAT (Scholastic Aptitude Test), 12
Scholarships, 28
applying for at other
institutions, 31
Scholastic Aptitude Test, 12
Scholastic index, 50
School Nurse Program, see
Public School Nursing
Science, special course offerings
in, 228
Secondary Education and Professional
Studies, Department of, 133
professional requirements for, 133
semester-hour requirements in
secondary fields, 134
Selective Service, 38
Serpentine, The 44
Service organizations, 45
Sigma Alpha Iota, 46
Sigma Tau Gamma, 47
Shakespeare folios, 5
Social Service and Personnel Work
B.A. degree, 119
Sociology and Anthropology
B.A. degrees, 118
course descriptions in
anthropology, 229
course descriptions in
sociology, 230
faculty, 118
Sororities
honor, 45
social, 46
Spanish, see Foreign Languages
Special Education
B.S. in Education
in speech pathology
and audiology, 86
certification programs, 134
course descriptions, 165
Special events, 41
Speech and Hearing Clinic, 8, 37
Speech and Theatre
B.A. in Speech Arts, 83
B.A. in Theatre Arts, 85
B.S. in Education in Speech
and Theatre, 86
B.S. in Education
in Speech Pathology and
Audiology, 86
course descriptions, 232
faculty, 83
Student Christian Association, 45
Student class load, 54
for veterans, 54
Student government, 39
Student living, 34
Student teaching, 56
readmitted students, 15
in Special Education, 135
Summer sessions, 10
expenses and fees, 27
schedule for 1968-69 and
1969-70, VI
Tau Kappa Epsilon, 47
Teachers
courses for in-service, 60
policy on entrance and credits
based on teaching, 60
Theatre Arts, see Speech and Theatre
Theatre, Little, (Theatre 208), 44
Theta Chi, 47
Transcripts, 57
fee for, 23
Trustees, Board of, V
Upper Division Standing, 52
Urban Education program, 8, 136
in areas of interest for
elementary majors, 130
course descriptions, 167
Veterans' Affairs, 54
WCSC (campus radio station), 45
Withdrawal
from the College, 55
from a course, 54
repayment policy, 23
Women's Athletic Association, 141

REQUEST FOR APPLICATION FORMS

[Secondary school students should send this request as soon as possible following completion of their junior year.]

1. Name _____
(Last) (First) (Second)

2. Number and Street _____County_____

3. City _____ State _____ Zip Code _____

4. When do you wish to enter West Chester? _____, 19_____
(State the month: September, January, or June)

5. In what curriculum do you wish to enroll?

ELEMENTARY EDUCATION ☐

SECONDARY EDUCATION ☐

List concentration _____

HEALTH AND PHYSICAL EDUCATION ☐

SPEECH PATHOLOGY AND AUDIOLOGY ☐

MUSIC ☐

Check the music degree you wish to pursue:

B.S. in Music Education ☐

Bachelor of Arts ☐

Bachelor of Music ☐

ARTS AND SCIENCES ☐

List concentration _____

BUSINESS ADMINISTRATION ☐

6. Have you attended any other college? Yes ☐ No ☐

If so, give name of the college _____

How many semesters did you spend there? _____

7. Do you intend to apply as a Resident Student? ☐ Day Student? ☐

8. When will you (or when did you) graduate from secondary school?

Month_____ Year_____

Send to:

Director of Admissions
West Chester State College
West Chester, Pennsylvania 19380

Note: When this information is received, instructions for completing your application will be sent to you. Do **not** send application fee with this form.

3/69

ARCHIVES

1. ANDERSON HALL
2. BOILER PLANT
3. ADMINISTRATION BUILDING
4. EHINGER GYMNASIUM
5. SITE FOR NEW RESIDENCE HALL
6. MAINTENANCE GARAGE
7. GOSHEN RESIDENCE HALL
8. OLD LIBRARY ANNEX
9. HOLLINGER FIELD HOUSE
10. PARKING
11. PARKING
12. KILLINGER RESIDENCE HALL
13. COLLEGE LAUNDRY
14. LAWRENCE CENTER (DINING HALL)
15. FRANCIS HARVEY GREEN LIBRARY
16. PARKING
17. ELECTRIC SUBSTATION
18. McCARTHY RESIDENCE HALL
19. OLD GYMNASIUM
20. OLD MAIN
21. PHILIPS MEMORIAL BUILDING
22. RAMSEY RESIDENCE HALL
23. OLD RECITATION HALL
24. REYNOLDS HALL
25. SCHMUCKER SCIENCE CENTER I
26. SCHMUCKER SCIENCE CENTER II
27. PLAYING FIELD
28. SPECIAL EDUCATION BUILDING
29. SWOPE HALL
30. TENNIS COURTS
31. TYSON RESIDENCE HALL
32. FOOTBALL STAFF OFFICES
33. PHYSICAL EDUCATION RESEARCH CENTER
34. EDUCATIONAL DEVELOPMENT CENTER
35. SPEECH AND HEARING CLINIC
36. SMITH HOUSE
37. PHYSICAL THERAPY CENTER
38. GENERAL STATE AUTHORITY OFFICES
39. PARKING

WEST CHESTER
STATE COLLEGE

NOT SHOWN ON MAP: LEARNING RESEARCH CENTER
(SOUTHEAST CORNER OF HIGH AND ROSEDALE)

W.C.S.C. LIBRARY WEST CHESTER, PA.

West Chester
STATE COLLEGE BULLETIN

REFERENCE

Overnight Only:
Dorm. students due 8 A.M.
Day students due 9 A.M

Summer
19
70

Undergraduate studies

UNDERGRADUATE SUMMER CALENDAR 1970

Pre Session

Pre-registration ends 4 p.m.	Friday, May 22
Registration	Monday, June 1
Students will register alphabetically according to last name:	
A thru F	8:00 a.m. to 9:45 a.m.
G thru L	9:45 a.m. to 11:30 a.m.
M thru R	12:30 p.m. to 2:15 p.m.
S thru Z	2:15 p.m. to 4:00 p.m.
Classes begin 8:00 a.m.	Tuesday, June 2
Classes end	Friday, June 19

Regular Session

Pre-registration ends 4 p.m.	Friday, June 12
Registration	Monday, June 22
Students will register alphabetically according to last name:	
A thru F	8:00 a.m. to 9:45 a.m.
G thru L	9:45 a.m. to 11:30 a.m.
M thru R	12:30 p.m. to 2:15 p.m.
S thru Z	2:15 p.m. to 4:00 p.m.
Classes begin 8:00 a.m.	Tuesday, June 23
Classes end	Friday, July 31

Post Session

Pre-registration ends 4:00 p.m.	Friday, July 24
Registration	Monday, August 3
Students will register alphabetically according to last name:	
A thru F	8:00 a.m. to 9:45 a.m.
G thru L	9:45 a.m. to 11:30 a.m.
M thru R	12:30 p.m. to 2:15 p.m.
S thru Z	2:15 p.m. to 4:00 p.m.
Classes begin 8:00 a.m.	Tuesday, August 4
Classes end	Friday, August 21

West Chester State College Bulletin

1970

summer sessions

WEST CHESTER, PENNSYLVANIA 19380
VOLUME 98/NUMBER 3 MARCH, 1970

Issued six times a year, November, January, March, April (twice), and May, by the Trustees of West Chester State College at West Chester, Pa. Entered as second class matter March 3, 1931, at the Post Office at West Chester, Pa., under the Act of Congress of August 24, 1912. Second Class Postage paid at West Chester, Pa. 19380.

WEST CHESTER STATE COLLEGE

ADMINISTRATION

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Director of Summer Sessions	Walter E. Buechele
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Director of Business Affairs	Everett E. Shaefer

Contents

2	The Administration
5	A Look at West Chester State College
6	Degrees Offered
8	Undergraduate Curricula Offered
9	Academic Calendar 1970-71
10	Undergraduate Summer Sessions
11	Registration Requirements and the Pre-Registration Procedure
12	Fees and Expenses
14	General Information
15	Academic Information
16	Intern Teaching Program and Teacher Certification
20	Pre-Registration and Registration Instructions for 1970 Summer Sessions
22	Pre Session Offerings
25	Regular Session Offerings
34	Post Session Offerings
37	Summer Workshops and Other Special Offerings
Inside Front Cover	Calendar for Undergraduate Summer Sessions
Inside Back Cover	Map of the College

ACCREDITATION

The Middle States Association of Colleges and Secondary Schools/The National Council for Accreditation of Teacher Education/The American Association for Health, Physical Education, and Recreation/The National Association of Schools of Music

The provisions of this Bulletin are not to be regarded as an irrevocable contract between the student and the College. West Chester State College reserves the right to change any provisions or requirements at any time within the student's term of attendance.

A Look at West Chester State College

WEST CHESTER is a multi-purpose college with a student body of more than 5,800 full-time undergraduates. Nearly one thousand additional undergraduates attend the College as part-time students and still another 1,500 are enrolled (mainly on a part-time basis) for graduate studies. West Chester is thus the second largest link in the system of fourteen institutions of higher learning which the Commonwealth owns and maintains for the youth of Pennsylvania. The College's objectives are to prepare teachers for Pennsylvania's public schools and to provide a liberal arts education for its youth.

West Chester traces its history back to the West Chester Academy, founded in 1812. Since then, an educational institution named West Chester has been in existence. The College has acquired its present dimensions through changes largely determined as the Commonwealth assumed increasing responsibility for the education of young Pennsylvanians. The institution became West Chester State Normal School in 1871, West Chester State Teachers College in 1927, and West Chester State College in 1962. A program of graduate studies, begun in 1959 and offering the Master of Education degree in a number of fields, was enlarged in 1968 to include the Master of Arts and Master of Science degrees in several disciplines.

West Chester has expanded into North Campus and South Campus, where the new facilities of the School of Health and Physical Education are rapidly taking shape. The widened educational resources of the College include the new Francis Harvey Green Library, with approximately 200,000 volumes; a Learning Research Center, housing a modern laboratory school and a computer center; and the Schmucker Science Center. A complex of handsome, new high-rise residence halls is now in use, and Lawrence Center, completed in 1965, provides modern dining halls, a student lounge and snack bar, and other facilities.

The total program at West Chester is comprehensive and designed to satisfy the intellectual, physical, and spiritual needs of all

students. A wide span of extracurricular activities affords students opportunities to mingle purposefully with their colleagues and faculty, and to seek the fullest expression of their talents and capacities.

Location of the College

The College is in West Chester, the county seat of Chester County. With a population of 16,700, West Chester is small enough to have the pleasant aspects of a tree-shaded American town, large enough to contain essential services and the substance of a vigorous community, and old enough to give the student first-hand touch with America's early history.

West Chester was settled largely by members of the Society of Friends in the early years of the eighteenth century. The town retains many charming traces of their culture. Today, West Chester is part of the rapidly growing suburban complex adjoining Philadelphia. Students have abundant opportunities to study local, county, and regional government in an era of dynamic change and growth.

The proximity of Philadelphia (25 miles to the east) and Wilmington (15 miles to the south) puts the libraries, museums, and other cultural and historical resources of the two cities in convenient range. West Chester is near Valley Forge, the Brandywine Battlefield, Longwood Gardens, and other historic attractions of Chester County. The College itself has a rich cultural program, including its All-Star Course, the William Pyle Philips Lecture Foundation series, and the recitals and concerts of its own School of Music.

Degrees Offered

The Bachelor of Science in Education degree is given in four basic curricula—elementary, secondary, music education, and health and physical education—and in one area (speech pathology and audiology) of special education. Degree curricula for public school nurses and dental hygienists are also provided. The College has a program of courses designed to meet certification requirements in the field of safety education and in the special education fields which train for the teaching of mentally retarded and physically handicapped children.

The liberal arts program leads to a Bachelor of Arts degree in arts and letters, social sciences, sciences, mathematics, and music; to the Bachelor of Music; and to the Bachelor of Science in business administration and in chemistry.

Program for In-Service Teachers

West Chester also maintains an extensive two-track program for teachers in service. One phase is composed of late-afternoon, evening, and Saturday morning courses for those desiring to satisfy various professional needs, including certification requirements. The second phase is a graduate program.

Admission to West Chester (Academic Year)

Candidates for admission must meet the following requirements:

1) Acceptable scholarship as evidenced by graduation from an approved secondary school or equivalent preparation as determined by the Credentials Evaluation Division of the Pennsylvania Department of Education. All candidates for admission must take the College Entrance Examination Board's Scholastic Aptitude Test and English Composition Achievement Test.
2) Satisfactory character and personality traits as well as proper attitudes and interests as determined by the high school principal, guidance counselor, or another school official acquainted with the student.
3) Satisfactory health and physical condition as evidenced by a medical examination by the student's family physician.
4) Recommendations of one or more College staff members following a personal interview with the applicant.
5) For admission to special curricula, the College may require the candidate to take an appropriate aptitude test in the special field in order to obtain further evidence of ability to succeed.

Admission to the fall or spring semester involves a number of steps, the first of which is the filing of application forms which may be secured from the Office of Admissions.

Housing

The majority of West Chester's undergraduate students live on campus. Upon admission, students who intend to reside at the College will need to make arrangements with the Dean of Men or the Dean of Women for their housing at the earliest opportunity.

Obtaining Catalogues

The undergraduate annual and summer-session catalogues may be obtained from the Director of Admissions. Catalogues for Graduate Studies during the academic year and the Graduate Summer Sessions may be obtained from the Office of Graduate Studies.

UNDERGRADUATE CURRICULA OFFERED

TEACHER EDUCATION

ELEMENTARY EDUCATION

SECONDARY EDUCATION

Comprehensive English
Foreign Languages
- French
- German
- Latin
- Russian
- Spanish

Geography
Mathematics
Sciences
- Biology
- Chemistry
- Comprehensive Science
- Earth and Space Science
- Physics

Social Sciences
- Comprehensive Social Studies
- History

Speech and Theatre

HEALTH AND PHYSICAL EDUCATION

Health Education*
Health and Physical Education
Certification Program
- Education for Safe Living

MUSIC EDUCATION

COOPERATIVE DEGREE PROGRAMS FOR:

Dental Hygienists
Public School Nurses

SPECIAL EDUCATION

Degree Program:
- Speech Pathology and Audiology

Certification Programs:
- Teaching the Mentally Retarded
- Teaching the Physically Handicapped

ARTS AND SCIENCES

ARTS AND LETTERS

Art
Foreign Languages
- French
- German
- Latin
- Russian
- Spanish

Literature
Philosophy
Speech Arts
Theatre Arts

SOCIAL AND BEHAVIORAL SCIENCES

Economics
Geography
History
Political Science
Psychology
Sociology-Anthropology
Social Work

BUSINESS ADMINISTRATION

SCIENCES

Biology
Chemistry
Physics

MATHEMATICS

MUSIC

B.A. Degree
B.Mus. Degree

INTERDISCIPLINARY PROGRAMS

American Studies
Latin-American Studies
Russian Studies

*This is a new program to be offered in the 1970-71 academic year. See 1970-71 Undergraduate Studies catalogue for details.

ACADEMIC CALENDAR - 1970 - 1971

FALL SEMESTER 1970

AUGUST	Saturday	1	Last day to qualify for admission
SEPTEMBER			Faculty meetings (date to be announced)
			NOTE: No Registration Days in September. All scheduling for Fall Semester 1970 takes place first week in May, 1970. All registration to be completed by mail.
	Monday	14	Classes begin (both part-time and full-time students)
NOVEMBER	Tuesday	24	Thanksgiving recess begins (as classes end)
	Monday	30	Chester County Institute
DECEMBER	Tuesday	1	Thanksgiving recess ends 8:00 a.m.
	Tuesday	15	Last day to qualify for admission, Spring Semester
	Saturday	19	Christmas recess begins (as classes end)
JANUARY	Monday	4	Christmas recess ends 8:00 a.m.
	Thursday	14	Final examinations begin (end January 22)
	Friday	22	Fall Semester ends

SPRING SEMESTER 1971

			NOTE: No Registration Days in January. All scheduling for Spring Semester 1971 takes place first week in December, 1970. All registration to be completed by mail.
FEBRUARY	Monday	1	Classes begin (both part-time and full-time students)
	Friday	19	Washington's Birthday holiday begins
	Tuesday	23	Washington's Birthday holiday ends 8:00 a.m.
APRIL	Saturday	3	Spring-Easter recess begins (as classes end)
	Tuesday	13	Spring-Easter recess ends 8:00 a.m.
MAY	Thursday	20	Final examinations begin (end May 28)
	Saturday	29	Alumni Day
	Sunday	30	Commencement

SUMMER SESSIONS 1971

June 7—July 16	First Session
July 19—August 27	Second Session

NOTE: This calendar amends the academic calendar published in the 1969-70 Undergraduate Studies catalog.

The College reserves the right to change the Academic Calendar if deemed necessary.

West Chester Undergraduate Summer Sessions

For nearly a century, West Chester has maintained a program of Summer Sessions and has been known to generations of teachers in the College's wide area of service as an ideal place for summer-time study.

West Chester, in 1877, held one of the first pioneering summer sessions for teachers in the nation. The month-long program, offering elocution, industrial drawing, and natural science at a cost of $30 for board and tuition, proved immensely popular and launched a summer institution that has grown with experience and the expansion of the College.

The 1970 Summer Sessions will be divided into a Pre Session of three weeks, a Regular Session of six weeks, and a Post Session of three weeks.

In the summer of 1971, the College will introduce a two-session program for the Summer Session. Each session will be held for six weeks. (See calendar for dates.) For undergraduate students, the schedule includes courses in both liberal arts and teacher education. For teachers in service, the summer program offers an opportunity to satisfy various professional needs, including certification requirements. A number of special offerings and workshops for in-service teachers are made available each summer.

In 1969, 1,638 attended the Pre Session, 2,108 the Regular Session, and 1,285 the Post Session.

Social and Recreational Program

Summer study at West Chester is pursued under highly favorable conditions. The tree-shaded campus, with its conveniently located buildings, provides a beautiful and restful environment. Various recreational activities include softball, tennis, and swimming. Social hours, when students meet informally with faculty members, are a feature of the Pre and Post Sessions. Philadelphia, with its historic and scenic interest and its full summer program of art, music, and theater, is a distinct attraction. New York and Atlantic City are within easy access, and the famed fountains and beautiful outdoor theater at Longwood Gardens are only a few miles from the campus.

Registration Requirements

The Pre-Registration Procedure

Registration in any Summer Session does not establish priority or privilege for admission as a student for the regular academic year.

Graduation from an approved secondary school or its equivalent is a basic requirement to attendance at West Chester Summer Sessions.

Students who have attended West Chester, and students currently enrolled at another college or university, are not required to obtain permission to register.

All other applicants must have permission from the Director of Admissions in order to register for the Summer Sessions. This permission must be obtained at least one week before the Pre-Registration closing date (see Summer Calendar).

Pre-Registration Procedure

Application for admission to any or all of the Summer Sessions is made by completing and submitting to the Director of Admissions a pre-registration information form, available from the Office of Admissions if not contained in this catalogue. No further application procedure is required until the date of registration, when the student reports to Lawrence Center.

(Students currently enrolled at West Chester may submit their completed application form directly to the Undergraduate Office.)

Students from Other Colleges

Students currently enrolled in other colleges must file with their pre-registration form an approval-of-attendance statement from the Dean of Instruction of their own college. No pre-registration form will be accepted without such a statement.

Summer Sessions Fees and Expenses

Fees are subject to change without notice. All charges for a session must be paid on the day of registration.

Basic Fee (Pennsylvania Residents)

(Check or money order payable to Commonwealth of Pennsylvania)

$18 per semester hour of credit.
Minimum Fee for Regular Session: $54
Minimum Fee for Pre or Post Session $27

Basic Fee (Out-of-State Students)

$30 per semester hour of credit.
Minimum Fee for Regular Session: $90
Minimum Fee for Pre or Post Session: $45

Housing Fee (Room and Meals)

Regular Session: $120
Pre or Post Session: $60

No reduction is made for absences of a few days. At the discretion of the College, a student may occupy a double room by paying an additional $12 for the Regular Session or $6 for the Pre or Post Sessions.

Charges for separate meals are: breakfast 65¢, lunch 85¢, dinner $1.25

Special Fee (Health and Physical Education)

In addition to the basic fee, majors in health and physical education pay a special fee as follows:

Regular Session: $6
Pre or Post Session: $3

Special Fee (Music)

In addition to the basic fee, students in any of the three music curricula, attending the Regular Session, pay a special fee based on the regular college-semester music fee of $45.

Rental and Practice Fees for Music Majors

Pipe Organ for Practice
Regular Session: $12
Pre or Post Session: $6
Rental of Orchestral Instruments
Regular Session: $2
Pre or Post Session: $1
(No charge for piano for practice.)

Private Music Instruction Fee For All Other Curricula

Students in fields other than music who elect private instruction (one hour-long lesson per week) in piano, organ, voice, or an instrument pay an applied music fee of $45 for the Regular Session. Their rates for practice and rentals are the same as for music majors, except that they are charged for a practice piano as follows:

Regular Session: $2
Pre or Post Session: $1

Late Registration Fee

A fee of $10 is required of students who register after the pre-registration period or after registration day for any of the three sessions. The Tuesday after each registration day is the last day to register for each session and will be counted as Late Registration.

Books

Books (available at the College Bookstore) must be purchased. The cost varies, but averages about $8 per course.

Student Activities Fee

(Check or money order payable to Intracollegiate Governmental Association)

Regular Session: $3.50
Pre or Post Session: $1.75

Resident Council Dues (Men)

(Check or money order payable to Intracollegiate Governmental Association)

Dues of $1 are charged men students living in residence halls during the Regular Session (50¢ for the Pre or Post Session).

Note: After 1970, the Pre and Post Sessions will be discontinued and the Summer Sessions will consist of two six-week sessions. Fees will accordingly be based on the Regular Session fees shown above.

General Information

Housing

Adequate housing is available for all men and women students for the three Summer Sessions. The College is unable, however, to provide housing for married students. After a student has filed an application for admission to the Summer Sessions, and provided he intends to be a resident student, he should make written application for room reservations, either to the Dean of Women or the Dean of Men, at least one week prior to the opening of a Session. Rooms may be occupied after 2 p.m. on the Sunday preceding each Session.

Placement

The Placement Service of the College offers excellent opportunities for employment in teaching and other careers. Graduates and graduating seniors are invited to make use of this service without cost. Counseling in career planning is offered to all students.

Opportunities for Employment and Loans

Opportunities to work in the community on an hourly or part-time basis are available, through the Director of Financial Aid to Students. Opportunities for work on campus may also be available; the same Director should be consulted. Information concerning student loans may be found in the Undergraduate Studies catalogue.

Cultural and Social Events of the Summer

A variety of cultural, recreational, and social events make summer study at West Chester a pleasant and interesting experience. Trips to Robin Hood Dell Concerts and other events in Philadelphia, excursions to Longwood Gardens, a campus cinema series, swimming, and tennis are among the varied programs available. Still others are dances in Hollinger Field House, an All-College picnic for both faculty members and students, and faculty-student coffee hours. The Summer Sessions Social Director, whose offices are in Ehinger Gymnasium, may be consulted.

Academic Information

Credits

Credits for the summer sessions may be earned at the rate of one semester hour per week of work. Thus, a student attending all three of the 1970 sessions may earn twelve credits. The same number of credits will be attainable in 1971 through attendance at both six-week sessions.

Students are not permitted to carry more than six semester hours of work in the Regular Session unless permission to do so has been secured in advance from the Dean of Undergraduate Studies.

Reinstatement to Fall Semester

If a West Chester student does not attain the required scholastic index by the end of the spring semester, he may attend summer sessions at West Chester in order to improve his academic average. If he does not attain the required scholastic index by the end of the Regular Summer Session, he is dismissed from the College. If he achieves the required scholastic index, he will be notified by letter from the Office of Undergraduate Studies. He will not need to apply for readmission through the Office of Admissions.

Academic Dismissal

The recommendations of the department chairman concerned and the Dean of Women or the Dean of Men will be considered when the question of a student's dismissal for academic reasons is under study.

Any student dismissed twice for academic reasons automatically terminates his degree candidacy at West Chester. Any courses taken as a non-degree student, following a second academic dismissal, shall not be included in his grade average, nor imply the right to readmission to the College.

Withdrawal

1) All withdrawals from class must be initiated by the student, who must report his intention to withdraw to his instructor.

2) A student who finds it necessary to withdraw must file a letter with the Office of Undergraduate Studies giving the date of last class attendance and the reason for withdrawal.

3) If a student withdraws without following the official procedures, his registration is continued until the end of the summer session, and he will receive an F grade in the course or courses pursued.

Course Changes After Registration Day

The Tuesday following each registration day of each session will be set aside for course changes (fee of $5.00). All late changes must be made by this day. (Students desiring to change a course **prior** to registration day may do so with no fee incurred, provided the change is made before the pre-registration deadline of the particular session.)

Intern Teaching Program

An intern program is available for persons with a college degree who seek teacher certification. Although the program is generally undertaken during a fall or spring semester, it is possible to arrange to begin during a summer period. Candidates—including those pursuing a graduate program toward a higher degree—must appply to the Office of Undergraduate Studies. To be accepted as an intern, a candidate must be enrolled in a certification program at West Chester. The intern teaching is completed as twelve credits of undergraduate work. Intern candidates must secure their own positions in an elementary or secondary school in which West Chester State College provides supervision. All required professional education courses must be completed before intern teaching is undertaken.

Instructional I Certificate

A student who satisfactorily completes one of the teacher education curricula offered by the College receives his degree from the College and qualifies for an Instructional I Certificate (formerly described as a Provisional College Certificate) which is issued to him by the Pennsylvania Department of Education.

In the elementary field this certificate qualifies the holder to teach in the elementary schools of Pennsylvania for three years.

In the secondary field this certificate qualifies the holder to teach the subjects written thereupon in the secondary schools of Pennsylvania for three years.

In health and physical education, music education, foreign languages, and in speech pathology and audiology, the certificate qualifies the holder to teach the specified subject in both the elementary and secondary schools of Pennsylvania for three years.

Instructional II Certificate

The Permanent College Certificate requires three years of successful teaching in the public schools of Pennsylvania under the Instructional I Certificate and the satisfactory completion of 24 semester hours of additional work of collegiate grade, completed subsequent to the issuance of the baccalaureate degree. One-half of the additional work must be professional in character and the remainder related to the subject field on the certificate. This certificate is a permanent license to teach in Pennsylvania. When prepared for the Instructional II Certificate, teachers may obtain the necessary application instructions from superintendents of schools or county superintendents of schools.

Extension of College Certificates

(1) A college certificate valid for the secondary field may be extended to include the elementary field by completing 24 semester hours of approved courses in the field of elementary education, distributed as follows: a course in the teaching of reading, the remainder selected from a minimum of four of the following areas: mathematics, arts and crafts, music, health and physical education, language arts, sciences, social studies, geography, mental hygiene, or a course dealing with exceptional children.

(2) A college certificate valid for the elementary field may be extended to include any subject of the secondary field by completing the College's field requirement for it, and the related methods course.

(3) A college certificate valid for the secondary field may be extended to include additional academic subjects by completing the

College's field requirements for them. (See Undergraduate Studies catalogue for further information.)

Citizenship Requirement for Teachers

To be eligible for a teacher's certificate in Pennsylvania, a student must be a citizen of the United States. Exception is made for foreign languages, which citizens of other countries may be certified to teach on a three year basis.

College Regulations

The regulations which pertain to student procedure and conduct during the academic year at West Chester are also in effect for Summer Sessions.

Enrollment

Courses offered for the Summer Sessions are contingent upon an adequate enrollment.

Summer Graduation

Students who anticipate graduation at the end of any of the 1970 Summer Sessions are urged to attend commencement exercises in May of 1970.

It is the student's responsibility to notify the Office of Undergraduate Studies of his anticipated graduation. The student must see that his name, written as he wishes, is placed upon the list of prospective graduates. He does so at the Office of Undergraduate Studies.

Class Meetings and Periods

In each of the three Summer Sessions, classes will be held on all weekdays except Saturdays, unless otherwise stated on schedules.

The class-absence policy for the academic year applies to the Summer Sessions.

PRE AND POST SESSIONS. After registration day, each class meets twice daily, 8-9:30 a.m. and 10:30-12 Noon (unless otherwise indicated). The hour from 9:30-10:30 is for rest, library work, or recreation. It is not possible for a student to carry more than one course during either the Pre or Post Session since all courses meet concurrently.

REGULAR SESSION. Classes begin on Tuesday and meet once daily (unless otherwise indicated) at the following times:

First Period	8-9:30 a.m.
Second Period	9:30-11
Third Period	11-12:30
Fourth Period	12:30-1:30
Fifth Period	1 p.m.-4:00

The time and days of classes are subject to change by administrative decision.

Pre-Registration and Registration—1970

PRE-REGISTRATION INSTRUCTIONS

All prospective Summer Session students must fill out the Pre-Registration Information card which is enclosed in this catalogue. Please give the information requested, as well as the courses desired. Return this card to the Office of Admissions.

Pre-registration for the Pre, Regular, and Post Sessions will terminate **two Fridays prior** to each General-Registration-and-Payment date, as follows:

Pre-Registation Deadlines			General-Registration and-Payment Dates	
Pre:	Friday, May 22	→	Pre:	June 1
Regular:	Friday, June 12	→	Regular:	June 22
Post	Friday, July 24	→	Post:	August 3

Students who fail to furnish Pre-Registration Information forms to the College by the Pre-Registration deadlines will be subject to a Late Pre-Registration fee of $10.

There will be a change-of-course fee of $5 on registration day for any change of course made after the Pre-Registration deadline.

All Summer Session fees are due and payable on the Registration dates.

REGISTRATION INSTRUCTIONS FOR 1970 UNDERGRADUATE SUMMER SESSIONS

Place of registration: Lawrence Center
Proceed from station to station in order shown

Station I. Foyer

1. Secure calendar for session.
2. Secure classroom assignment sheet of session.

Station II. Northeast Dining Room

1. When you enter, secure class permits and registration forms.

2. Undergraduate Table—Change of Course or Late Registration
   a) If you wish to change or drop a course, report here.
   b) If you have not pre-registered, report here.
3. Scheduling and Academic Records Table
   a) If you are a senior planning to graduate in August, 1970, sign here for diplomas and secure applications for Provisional Teacher Certification. (Please designate graduation date as Pre, Regular, or Post Session.)
   b) If you receive Veterans' benefits, secure form here.
   c) If you wish to have credits transferred to another college, secure special form here.
4. Fill out your registration cards at designated writing tables.
5. Dean of Men's and Dean of Women's Table
   a) Mark your status (resident or commuting).
   b) If you are a resident student, obtain your room assignment and write it on your registration form. (Note that all resident students must take their meals in the College dining hall.)
6. Checking Table
   a) Registration cards will be checked here for accuracy and collected. When you leave, you should have your permit-to-attend-class card and your white pre-registration form.

Station III. Northwest Dining Room

1. Pay basic fee and room-and-board fee.
2. Have your permit cards stamped by the Business Office. *These cards must be submitted to your professors for admission to classes.*
3. Automobile Regulations Station
   a) Obtain automobile decals here. (This applies to both commuting and resident students.)
4. Student Activities Fee Table
   a) Pay your student activities fee. Please have your check made out, ready to submit. Make it payable to "Intracollegiate Governmental Association." Fees are $1.75 for Pre or Post Session and $3.50 for Regular Session.

Pre Session

Monday, June 1 through Friday, June 19

Each class meets 8-9:30 a.m. and 10:30-12 Noon [unless otherwise shown]

See Undergraduate Studies catalogue for course descriptions. Course listings are correlated with the 1969-1970 edition of the catalogue.

Offerings listed are contingent upon sufficient enrollment.

SCHOOL OF ARTS AND LETTERS

Course Number		Course Title	Credits
		Art	
Art	101	Fine Arts (Art)	3
		English	
Eng	101	English Composition I	3
Lit	121	General Literature I	3
Lit	223	American Literature I	3
Lit	225	English Literature I	3
Lit	333	Shakespeare I	3
Lit	350	Children's Literature	3
		Foreign Languages	
Lan	360	Philosophy of Language [also Phi 360] (New course; not described in 1969-70 catalogue)	3
		Philosophy	
Phi	280	Introduction to Philosophy	3
Phi	360	Philosophy of Language [also Lan 360] (New course; not described in 1969-70 catalogue)	3
Phi	485	Contemporary Philosophy	3
		Speech	
Sph	103	Discussion	3
SpP	302	Speech and Language Development	3
		SCHOOL OF EDUCATION	
EdA	344	Problems in Special Education (7 p.m.)	2
EdA	350	The Academically Superior Child (7:00 p.m.) (See EdA 340 in 1969-70 catalogue for description)	3
EdE	401	Current Trends in Elementary Education	3
EdF	100	School and Society	3

[Continued]

EdM	300	Audio-Visual Education (01)	2
EdM	300	Audio-Visual Education (02)	2
EdP	250	Psychology of Learning and Development (01)	3
EdP	250	Psychology of Learning and Development (02)	3
EdU	360	The Culturally Disadvantaged Child (7 p.m.)	3

SCHOOL OF HEALTH AND PHYSICAL EDUCATION

HEd	150	Health (7 P.M.)	2
PEd	331	Aquatic Leadership (7 p.m.)	2
PEd	361	Tests, Measurements, and Statistics in Health and Physical Education (7 p.m.)	3
PEd	390	Physical Disabilities of Childhood (7 p.m.)	2
PEd	481	Introduction to Safety Education (7 p.m.)	3
PEd	482	Principles and Practices of Driver Education and Traffic Safety (7 p.m.)	3

(New course; not described in 1969-70 catalogue)

SCHOOL OF MUSIC

Mus	121	Fine Arts (Music)	3
Mus	231	Music for the Primary Grades	3
Mus	221	Music in Western Civilization I	3

SCHOOL OF SCIENCES AND MATHEMATICS

Biology

Bio	100	Basic Biological Science (Lab 1:00 to 3:00 Mon. thru Thurs.)	4
Bio	242	Ornithology	3
Bio	261	Human Anatomy (Lab 1:00 to 3:00 Mon. through Thurs.)	4
Bio	301	Genetics (Lab 1:00 to 3:00 Tues. and Thurs.)	3

Chemistry

Che	100	Principles of Chemistry (Lab 1:00 to 3:00 Mon. through Thurs.)	4
Che	401	History and Literature of Chemistry (6 to 8:30 p.m.)	2

Earth, Space and General Sciences

ESS	101	Earth Science (Lab 1:00 to 3:00 Mon. thru Thurs.)	4
Sci	250	Science for the Elementary Grades	3

Mathematics

Mat	101	Introduction to College Mathematics I (01) (Elementary Majors Only)	3
Mat	101	Introduction to College Mathematics I (02) (Majors other than Elementary)	3

[Continued]

Mat	141	Analytic Geometry and Calculus I	3
Mat	350	Teaching Mathematics in Secondary Schools	3
Mat	351	Teaching Mathematics in Elementary Schools	3

Physics

Sci	150	Basic Physical Science (Lab 1:30 to 3:00 Mon. thru Thurs.)	4

Public School Nursing

PSN	300	Public School Nursing (7:30 p.m.)	2
PSN	304	Foundations of Nutrition (4:30 p.m.)	3

SCHOOL OF SOCIAL AND BEHAVIORAL SCIENCES

Anthropology

Ant	231	Introduction to Anthropology	3

Business

BAc	201	Principles of Accounting I	3

Economics

Eco	231	Principles of Economics	3
Eco	333	Consumer Economics	3

Geography

Geo	101	World Geography	3
Geo	200	Geography of World Cultures	3
Geo	202	Geography of the U.S. and Canada	3

History

His	101	History of Civilization I	3
His	102	History of Civilization II	3
His	211	History of U.S. I	3
His	212	History of U.S. II	3
His	313	History of Pennsylvania	3

Political Science

PSc	231	American Government	3
PSc	340	American Constitutional Law	3

Psychology

Psy	100	Introduction to Psychology	3
Psy	352	Child and Adolescent Psychology	3
Psy	375	Abnormal Psychology	3

Sociology

Soc	231	Introduction to Sociology	3

Regular Session

Monday, June 22 through Friday, July 31

Classes meet daily, Monday through Friday, unless otherwise indicated.

See Undergraduate Studies catalogue for course descriptions. Course listings are correlated with the 1969-1970 edition of the catalogue.

Offerings listed are contingent upon sufficient enrollment.

SCHOOL OF ARTS AND LETTERS

Art

8:00-9:30 a.m.

Art	101	Fine Arts [Art] (01)	3
Art	201	Arts and Crafts	3
Art	220	Principles of Design	3
Art	320	Drawing	3

9:30-11:00 a.m.

Art	202	Art for the Elementary Grades I	3
Art	310	Sculpture I	3
Art	401	Aesthetics: Contemporary Art Forms	3

11:00 a.m.-12:30 p.m.

Art	101	Fine Arts [Art] (02)	3
Art	301	Painting I	3
Art	330	Ceramics	3
Art	403	Primitive Art [also Ant 403]	3

English

8:00-9:30 a.m.

Eng	101	English Composition I (01)	3
Eng	102	English Composition II (01)	3
Eng	313	Advanced Writing	3
Lit	121	General Literature I (01)	3
Lit	122	General Literature II (01)	3
Lit	333	Shakespeare I	3
Lit	353	Reading Interests of Secondary School Students	3

9:30-11:00 a.m.

Eng	102	English Composition II (02)	3
Eng	309	Non-standard Dialects of American English (See course description in this catalogue)	3
Eng	314	History of Language	3
Eng	315	Modern English Grammar	3
Eng	316	Teaching English in the Secondary School	3
Lit	122	General Literature II (02)	3
and			
Lit	127		
Lit	224	American Literature II	3
Lit	335	Eighteenth Century Literature	3
Lit	342	Contemporary Novel	3

11:00 a.m.-12:30 p.m.

Eng	101	English Composition I (02)	3
Eng	105	Introductory Writing Workshop	3
Eng	319	American English	3
Lit	121	General Literature I (02)	3
Lit	226	English Literature II	3
Lit	334	Shakespeare II	3
Lit	343	Contemporary Poetry	3
Lit	348	Short Story	3
Lit	349	Bible as Literature	3
Lit	350	Children's Literature	3

12:30-2:00 p.m.

Eng	000	English Composition (Remedial)	0

Foreign Languages

8:00-9:30 a.m.

Fre	201	Intermediate French I	3

9:30-11:00 a.m.

Fre	101	Elementary French I	3
Spa	201	Intermediate Spanish I	3

11:00 a.m.-12:30 p.m.

Ger	101	Elementary German I	3
Spa	101	Elementary Spanish I	3

1:00-2:30 p.m.

Ger	201	Intermediate German I	3

Philosophy

8:00-9:30 a.m.

Phi	280	Introduction to Philosophy (01)	3

9:30-11:00 a.m.

Phi	280	Introduction to Philosophy (02)	3

11:00 a.m.-12:30 p.m.

Phi	486	Philosophy of Religion	3
Phi	490	Logic	3

Speech and Theatre

8:00-9:30 a.m.

Sph	101	Fundamentals of Speaking (01)	2
SpP	201	Introduction to Speech Problems	3

8:30 a.m.-4:30 p.m.

Sph	325	Speech and Communication in the Classroom (June 22 thru June 27) (See Course description in this catalogue)	3

9:30-11:00 a.m.

ThA	206	Educational Theatre Production	3
Sph	101	Fundamentals of Speaking (02)	2
SpP	301	Introduction to Hearing Problems	3

11:00 a.m.-12:30 p.m.

Sph	101	Fundamentals of Speaking (03)	2
ThA	105	Oral Interpretation	3

To be arranged

SpP	303	Clinic Practicum	1-2

SCHOOL OF EDUCATION

STUDENT TEACHING

EdE	411	Student Teaching [Elementary Majors] (June 22-July 31) (Application should be filed prior to May 1)	6

8:00-9:30 a.m.

EdF	100	School and Society (01)	3
EdP	250	Psychology of Learning and Development (01)	3
EdP	251	Human Development: Childhood (01)	3
EdP	251	Human Development: Childhood (02)	3
EdM	300	Audio-Visual Education (01)	2
EdM	300	Audio-Visual Education (02)	2
EdS	306	Field Experience in Secondary Education	3
EdE	317	Oral and Written Expression in the Elementary School (Open only by permission. See Dr. Charlotte E. King, Chairman, Department of Elementary Education)	3
EdE	332	Teaching Social Studies in the Elementary Schools (01) (For course description, see SSc 332 in 1969-70 catalogue)	3
EdE	401	Current Trends in Elementary Education (01)	3
EdE	403	Early Childhood Education I	3
EdE	441	Workshop in Elementary Education (8:00 to 11:00 a.m.) (See course description in this catalogue)	4

9:30-11:00 a.m.

EdF	100	School and Society (02)	3
EdA	241	Psychology of Exceptional Children	3
EdP	250	Psychology of Learning and Development (02)	3
EdM	300	Audio-Visual Education (03)	2
EdM	300	Audio-Visual Education (04)	2
EdE	309	Language Arts (01) 9:30-12:30	6
EdE	309	Language Arts (02) 9:30-12:30	6
EdE	309	Language Arts (03) (9:30-12:30)	6
EdE	319	Reading in the Elementary School (Open only by permission. See Dr. Charlotte E. King, Chairman, Department of Elementary Education)	3
EdE	332	Teaching Social Studies in the Elementary Schools (02) (For course description, see SSc 332 in 1969-70 catalogue)	3
EdP	351	Evaluation and Measurement (01)	2
EdE	421	Honors Seminar in Elementary Education (01) (See course description in this catalogue)	2

11:00 a.m.-12:30 p.m.

EdF	100	School and Society (03)	3
EdC	150	Introduction to Guidance and Counseling	3
EdP	250	Psychology of Learning and Development (03)	3
EdM	300	Audio-Visual Education (05)	2
EdA	350	The Academically Superior Child (For course description, see EdA 340 in 1969-70 catalogue)	3
EdP	351	Evaluation and Measurement (02)	2
EdU	361	Teaching in Urban Schools	3
EdE	401	Current Trends in Elementary Education (02)	3
EdE	404	Early Childhood Education II	3
EdE	421	Honors Seminar in Elementary Education (02) (See course description in this catalogue)	2

SCHOOL OF HEALTH AND PHYSICAL EDUCATION

8:00-9:30 a.m.

HEd	350	Health for the Elementary Grades	3
HEd	451	Community and School Health Education Workshop (June 22-July 10) (See course description in this catalogue)	3
HEd	452	Mental Health Workshop (July 13-July 31) (See course description in this catalogue)	3 3
PEd	464	Supervised Camping Leadership (See course description in this catalogue)	3
PEd	482	Principals and Practices of Driver Education and Traffic Safety (01) (New course; not described in 1969-70 catalogue)	3
PEd	483	Preparation for Teaching Driver and Traffic Safety Education (01) (For course description, see PEd 482 in 1969-70 catalogue)	3

9:30-11:00 a.m.

HEd	150	Health	2
HEd	352	Methods and Materials in Health Education	2
PEd	391	Psychology of the Physically Handicapped	3
PEd	482	Principles and Practices of Driver Education and Traffic Safety (02) (New course; not described in 1969-70 catalogue)	3
PEd	483	Preparation for Teaching Driver and Traffic Safety Education (02) (For course description, see PEd 482 in 1969-70 catalogue)	3

11:00-12:00 Noon

HEd	353	First Aid for Teachers	2
PEd	463	Principles of Coaching	2
PEd	484	Methods and Materials of Safety Education	3

11:30 a.m.-12:30 p.m.

PEd	107	Eurythmics	1

12:30-1:30 p.m.

PEd	102	Survey of Physical Education II	1
PEd	201	Practice and Theory in Elementary Physical Education	1

SCHOOL OF MUSIC

8:00-9:30 a.m.

Mus	111	Foundations of Music	3
Mus	113	Sight Singing I	3
Mus	213	Sight Singing II	2
Mus	212	Theory of Music III	3
Mus	311	Theory of Music IV	3

9:30-11:00 a.m.

Mus	121	Fine Arts [Music]	3
Mus	222	Music in Western Civilization II	3
Mus	231	Music for the Primary Grades	3

11:00-12:00 Noon

BEn	111-412	Brass Ensemble	½

11:00 a.m.-12:30 p.m.

Mus	112	Theory of Music I	3
Mus	211	Theory of Music II	3

11:30 a.m.-12:30 p.m.

SyO	111-412	Symphony Orchestra	½

2:00-3:00 p.m.

	111-412	Mixed Chorus/Choir	½
ICo	311	Instrumental Conducting	2

3:00-4:00 p.m.

CMB	111-412	Concert Band	½

By Appointment

	101-422	Instruments	1
Org	101-422	Organ	1
Pia	101-422	Piano	1
Voi	101-422	Voice	1

SCHOOL OF SCIENCES AND MATHEMATICS

Biology

8:00-9:30 a.m.

Bio	262	Human Physiology (Lab 1:00 to 3:00 Tues. and Thurs.)	4

9:30-11:00 a.m.

Bio	142	Zoology II (Lab 1:00 to 3:00 Mon. and Wed.)	4

11:00 a.m.-12:30 p.m.

Bio	100	Basic Biological Science (Lab 1:00 to 3:00 Tues. and Thurs.)	4

Chemistry

8:00-9:30 a.m.

Che	100	Principles of Chemistry (Lab 1:00 to 3:00 Tues. and Thurs.)	4

***9:30-11:30 a.m.**

Che	103	General Chemistry I (June 22 to July 17) (Lab 12:30 to 3:30 Mon. thru Thurs.)	4
Che	104	General Chemistry II (July 20 to August 14) (Lab 12:30 to 3:30 Mon. thru Thurs.)	4
Che	231	Organic Chemistry I (June 22 to July 17) (Lab 12:30 to 3:30 Mon. thru Thurs.)	4
Che	232	Organic Chemistry II (July 20 to August 14) (Lab 12:30 to 3:30 Mon. thru Thurs.)	4

11:00 a.m.-12:00 Noon

Che	324	Instrumental Methods of Analysis (Lab 12:30 to 4:00 Mon. thru Thurs.)	4

Earth, Space, and General Sciences

8:00-9:30 a.m.

Sci	250	Science for the Elementary Grades (01)	3

9:30-11:00 a.m.

ESS	111	General Astronomy (Lab 2:00 to 4:00 Tues. and Thurs.)	4
ESS	201	Physical Geology (Lab 2:00 to 4:00 Mon. and Wed.)	4
Sci	350	Teaching Science in Secondary Schools	3

*These classes meet for 2 HOURS OF LECTURE daily (9:30 to 11:30, RATHER THAN 9:30 to 11:00 a.m.)

11:00 a.m.-12:30 p.m.

ESS 211	Historical Geology (Lab 2:00 to 4:00 Tues. and Thurs.)	4
Sci 250	Science for the Elementary Grades (02)	3

Mathematics

8:00-9:30 a.m.

Mat 101	Introduction to College Mathematics I (01) (Other than Elementary Majors)	3
Mat 105	College Algebra and Trigonometry	3
Mat 106	Foundations of Mathematics	3
Mat 311	Algebra for Elementary Teachers	3

9:30-11:00 a.m.

Mat 101	Introduction to College Mathematics I (02) (Elementary majors)	3
Mat 142	Analytic Geometry and Calculus II	3
Mat 411	Modern Algebra I	3
CSc 101	Computer Programming	3

11:00 a.m.-12:30 p.m.

Mat 107	Finite Mathematics for the Management Sciences I	3
Mat 121	Statistics	3
Mat 211	Linear Algebra	3
Mat 351	Teaching Mathematics in Elementary Schools	3
Mat 421	Mathematical Statistics I	3

Physics

8:00-9:30 a.m.

Phy 233	Introduction to Modern Physics (Lab to be arranged. Lab adds 1 s.h. of credit, making total credit 4 s.h.)	3

8:00 a.m.-12:30 p.m.

Phy 103	General Physics I (June 22 thru July 17)	4
Phy 104	General Physics II (July 20 thru August 14) (General Physics I and II do not meet requirements for physics and mathematics majors)	4

11:00 a.m.-12:30 p.m.

Sci 150	Basic Physical Science (Lab 1:00 to 3:00 Tues. and Thurs.)	4

Public School Nursing

9:30-11:00 a.m.

PSN 303	Public Health Nursing II	3

11:00-12:30 p.m.

PSN 302	Public Health Nursing I	3

SCHOOL OF SOCIAL AND BEHAVIORAL SCIENCES

Anthropology

9:30-11:00 a.m.

Ant 231	Introduction to Anthropology	3

11:00 a.m.-12:30 p.m

Ant	403	Primitive Art [also Art 403]	3

Business

8:00-9:30 a.m.

BAc	201	Principals of Accounting I	3

11:00 a.m.-12:30 p.m.

BAc	202	Principles of Accounting II	3

Economics

11:00 a.m.-12:30 p.m.

Eco	231	Principles of Economics	3

Geography

8:00-9:30 a.m.

Geo	203	Economic Geography	3
Geo	315	Aerial Photographic Intrepretation	3

9:30-11:00 a.m.

Geo	101	World Geography	3
Geo	207	Geography of Europe	3
Geo	310 }	Combination Geography Field Study Course	6
Geo	415 }	(9:30-12 Noon) (Geo 310—Geography Field Methods and Geo 415—Geography Area Field Study. These courses are designed to complement each other and may not be taken separately. Students interested in this combination course should contact Mr. Andrew Thompson, Department of Geography, for early enrollment.)	

11:00 a.m.-12:30 p.m.

Geo	201	Conservation of Natural Resources	3
Geo	415	See above.	

History

8:00-9:30 a.m.

His	101	History of Civilization I (01)	3
His	102	History of Civilization II (01)	3
His	211	History of U.S. I (01)	3
His	212	History of U.S. II (01)	3
His	322	History of South Asia	3

9:30-11:00 a.m.

His	102	History of Civilization II (02)	3
His	211	History of U.S. I (02)	3
His	332	History of England Since 1688	3

11:00 a.m.-12:30 p.m.

His	101	History of Civilization I (02)	3
His	212	History of U.S. II (02)	3
His	318	Constitutional History of the United States	3

Political Science

8:00-9:30 a.m.

PSc 231	American Government (01)	3

9:30-11:00 a.m.

PSc 231	American Government (02)	3
PSc 335	American Political Ideas	3

11:00 a.m.-12:30 p.m.

PSc 231	American Government (03)	3

Psychology

8:00-9:30 a.m.

Psy 100	Introduction to Psychology (01)	3
Psy 375	Abnormal Psychology	3

9:30-11:00 a.m.

Psy 354	Social Psychology	3

11:00 a.m.-12:30 p.m.

Psy 356	The Study of Personality	3
Psy 425	Psychological Testing and Measurement (New course; not described in 1969-70 catalogue)	3

1:00-2:30 p.m.

Psy 100	Introduction to Psychology (02)	3
Psy 370	Mental Hygiene	3

Social Science

SSc 300	Seminar in Contemporary European Culture (Student European Tour) For information communicate with: Dr. Byron Y. Fleck, Dean School of Social and Behavioral Sciences	6

Sociology

8:00-9:30 a.m.

Soc 231	Introduction to Sociology (01)	3
Soc 338	Criminology	3

9:30-11:00 a.m.

Soc 332	Contemporary Social Problems	3

11:00 a.m.-12:30 p.m.

Soc 231	Introduction to Sociology (02)	3
Soc 335	Racial and Cultural Minorities	3

1:00-2:30 p.m.

Soc 333	The Family	3

Post Session

Monday, August 3 through Friday, August 21

Each class meets 8:00-9:30 a.m. and 10:30-12 Noon [unless otherwise shown]

See Undergraduate Studies catalogue for course descriptions. Course listings are correlated with the 1969-1970 edition of the catalogue.

Offerings listed are contingent upon sufficient enrollment.

SCHOOL OF ARTS AND LETTERS

Art

Art	101	Fine Arts (Art)	3

English

Eng	000	English Composition [Remedial] (12:30 p.m.)	0
Eng	101	English Composition I	3
Eng	306	TESOL (Techniques for Teaching English to Speakers of Other Languages) (See course description in this catalogue)	3
Lit	121	General Literature I	3
Lit	122	General Literature II	3
Lit	224	American Literature II	3
Lit	226	English Literature II	3
Lit	338	Modern Irish Literature	3
Lit	350	Children's Literature	3

Foreign Languages

Fre	102	Elementary French II	3
Fre	202	Intermediate French II	3
Ger	102	Elementary German II	3
Ger	202	Intermediate German II	3
Spa	102	Elementary Spanish II	3
Spa	202	Intermediate Spanish II	3

Philosophy

Phi	280	Introduction to Philosophy	3
Phi	380	Ethics	3

Speech

Sph	101	Fundamentals of Speaking	2

SCHOOL OF EDUCATION

EdF	100	School and Society	3
EdA	243	Psychology of the Mentally Retarded	3
EdP	250	Psychology of Learning and Development (01)	3
EdP	250	Psychology of Learning and Development (02)	3
EdM	300	Audio-Visual Education (01)	2
EdM	300	Audio-Visual Education (02)	2
EdE	332	Teaching Social Studies in the Elementary Schools	3
		(For course description, see SSc 332 in 1969-70 catalogue)	
EdP	351	Evaluation and Measurement	2
EdE	401	Current Trends in Elementary Education	3
EdE	421	Honors Seminar in Elementary Education	2
		(See course description in this catalogue)	

SCHOOL OF HEALTH AND PHYSICAL EDUCATION

HEd	354	Seminar in Health Education	3
PEd	455	Applied Physiology	2
PEd	481	Introduction to Safety Education	3
PEd	484	Methods and Materials of Safety Education	3

SCHOOL OF MUSIC

Mus	113	Sight Singing I	3
Mus	121	Fine Arts [Music]	3
Mus	231	Music for the Primary Grades	3
Mus	334	Teaching Music Appreciation in the Elementary Grades	3
Mus	414	Musical Acoustics	3

SCHOOL OF SCIENCES AND MATHEMATICS

Biology

Bio	100	Basic Biological Science	4
		(Lab 1:00 to 3:00 Mon. thru Thurs.)	

Chemistry

Che	100	Principles of Chemistry	4
		(Lab 1:00 to 3:00 Mon. through Thurs.)	

Mathematics

Mat	101	Introduction to College Mathematics I (01)	3
		(Elementary Majors)	
Mat	101	Introduction to College Mathematics I (02)	3
		(Majors other than Elementary)	
Mat	105	College Algebra and Trigonometry	3
Mat	108	Mathematics for the Management Sciences II	3
Mat	141	Analytic Geometry and Calculus I	3
Mat	351	Teaching Mathematics in Elementary Schools	3

Physics

Sci	150	Basic Physical Science	4
		(Lab 1:00 to 3:00 Mon. through Thurs.)	

Public School Nursing

PSN	306	Prevention and Control of Communicable Diseases	3

SCHOOL OF SOCIAL AND BEHAVIORAL SCIENCES

Economics

Eco	231	Principles of Economics	3
Eco	333	Consumer Economics	3

Geography

Geo	100	Physical Geography	3
Geo	101	World Geography	3
Geo	316	Political and Military Geography of the U.S. in the 20th Century	3
Geo	415	Geography Area Field Study in Puerto Rico	3

(Students interested in this course should contact Dr. George Langdon of the Geography Department early for details and reservations.)

History

His	101	History of Civilization I	3
His	102	History of Civilization II	3
His	211	History of U.S. I	3
His	212	History of U.S. II	3
His	351	Soviet Russia	3

Political Science

PSc	231	American Government	3

Psychology

Psy	100	Introduction to Psychology	3
Psy	352	Child and Adolescent Psychology	3
Psy	370	Mental Hygiene	3

Sociology

Soc	231	Introduction to Sociology	3
Soc	336	Urban Sociology	3

Summer Workshops and Other Special Offerings

LABORATORY SCHOOL

The Laboratory School in the new Learning Research Center will be open during the Regular Session for the purpose of demonstrating teaching at the elementary level. Experience in elementary student teaching will be available for a limited number of students who file applications early in the spring.

HONORS SEMINAR IN ELEMENTARY EDUCATION (EdE 421)

Senior students in the elementary education curriculum may, with departmental approval, enroll in this seminar as an elective or as a substitute for EdE 401—Current Trends in Elementary Education. The seminar is intended to give competent students an opportunity to do independent study and/or to participate in experimental programs for children. Projects will be planned and guidance provided on an individual basis, with group meetings scheduled as needed. For further information and for approval of enrollment arrange an appointment with Dr. Charlotte E. King, Chairman, Department of Elementary Education.

WORKSHOP IN ELEMENTARY EDUCATION (EdE 441)

A workshop in elementary education will be conducted to provide opportunity for study of newer practices in elementary education. Current problems will be shared by the members of the group. Discussions will be led by an experienced coordinator. Master teachers and the facilities of the Laboratory School will be utilized for demonstration and observance. The workshop will meet from 8 a.m. to 11 a.m. during the Regular Session and will carry four semester hours of credit. Students may elect an additional three-credit course. The workshop is open to experienced teachers and college graduates.

WORKSHOP IN COMMUNITY AND SCHOOL HEALTH EDUCATION (HEd 451)

The Community and School Health Education Workshop for rural teachers, school nurses, health education specialists, and others engaged in health work will be conducted during the three week period from June 22 to July 10. Three college credits may be earned by students who meet the College admission requirements. No additional courses may be carried by the student during this three-week session. For information contact Mr. Walter E. Funk, Chairman, Health Department, West Chester State College, West Chester, Pa. 19380.

MENTAL HEALTH WORKSHOP (HEd 452)

A Mental Health Workshop will be conducted from July 13 to July 31. Three credits may be earned by students who meet the College admission requirements. No additional courses may be carried by the student during this three-week session. The workshop will attempt to help educators improve their understanding of themselves and their students and will emphasize ways to identify and service students needing help. For information communicate with Mr. Walter E. Funk, West Chester State College, West Chester, Pa. 19380.

A PROGRAM OF INDEPENDENT STUDY AND SUPERVISED FIELD EXPERIENCE IN CAMPING

(PEd 464 Supervised Camping Leadership)

The School of Health and Physical Education offers a program of courses in camp leadership for staff members at children's summer camps. These courses are designed to aid the student's professional growth and knowledge through directed leadership experience with children in the informal atmosphere of the camp. (Six to eight weeks at camp July through August.) Any West Chester student is eligible to participate. If credit is to be applied toward a degree, permission of the adviser should be obtained. With permission from the course instructor, students from other colleges may register. For further information, apply to Mr. Alvin B. Davis, School of Health and Physcal Education, West Chester State College, West Chester, Pa. 19380.

SUMMER MUSIC WORKSHOP FOR HIGH SCHOOL MUSICIANS

A summer music workshop for serious musicians of high school age will be held from June 28 to July 24 under the sponsorship of the School of Music. Offerings will include: band, orchestra, chorus, individual lessons, music theory, appreciation, ensembles, and dance band. There will also be master classes in repertoire and literature for studies of voice and piano. Concerts, recitals, and special clinics, open to the public, will be presented during the workshop. For brochure and application forms write to Mr. Richard A. Boerlin, Workshop Director, School of Music, West Chester State College, West Chester, Pa. 19380.

Music Workshop Fees: For commuting students (including accident insurance, individual lessons, activities fee, and full workshop privileges), $70. For resident students (including above plus room and board on campus for four weeks), $154.

STRING CONFERENCE AND CHAMBER MUSIC WORKSHOP

August 7-16, 1970

The School of Music and the Pennsylvania String Teachers Association will sponsor the Eighth Annual String Conference and Chamber Music Workshop from August 7 to August 16 in Swope Hall. A faculty of renowned string authorities will present master classes for each of the string instruments to both adults and young people. Two youth and one adult string symphony orchestra, conducted by outstanding guest conductors, will be in daily rehearsal, culminating in gala performances at the end of the Conference. Chamber music ensembles will be organized and coached by a distinguished faculty of chamber music experts. Solo literature classes will be presented and directed by master teachers. Guest lecturers and experts in many phases of string teaching and performance will preside over special sessions. The String Conference will embrace complete programs for both adults and youth. For information and application forms write Dr. Constantine Johns, Executive Director of the Conference, School of Music, West Chester State College, West Chester, Pa. 19380.

STUDENT EUROPEAN TOUR

Each summer the School of Social and Behavioral Sciences conducts a "Cultural Adventure in Europe." Directed by a member of the School's faculty, the tour offers six undergraduate credits in history or the social sciences. The summer tour offers a cross-section of Europe,

past and present, through visits to museums, galleries, cathedrals, attendance at operas and music festivals, seminars and lectures by European academicians, and orientation tours of cities. For the 1970 tour, see SSc 300, Seminar in Contemporary European Culture, under Regular Session offerings.

SUMMER PROGRAM IN THE TEACHING OF ENGLISH AS A SECOND LANGUAGE

A workshop in the teaching of English as a second language has been tentatively scheduled for the 1970 Summer Sessions. If given, it will be conducted by the Department of English during the Regular Session. The program is planned to provide an opportunity (1) to study the latest practices in teaching English as a foreign language; (2) to relate these methods to the non-standard language problems of English-speaking ghetto minorities; and (3) to study the sociological problems of assimilation for minority groups such as Puerto Ricans, Mexican Americans, and Negro Americans. The staff will include experienced linguists and urban sociologists and will provide opportunities for demonstration and observance of the most recent techniques, materials, and equipment.

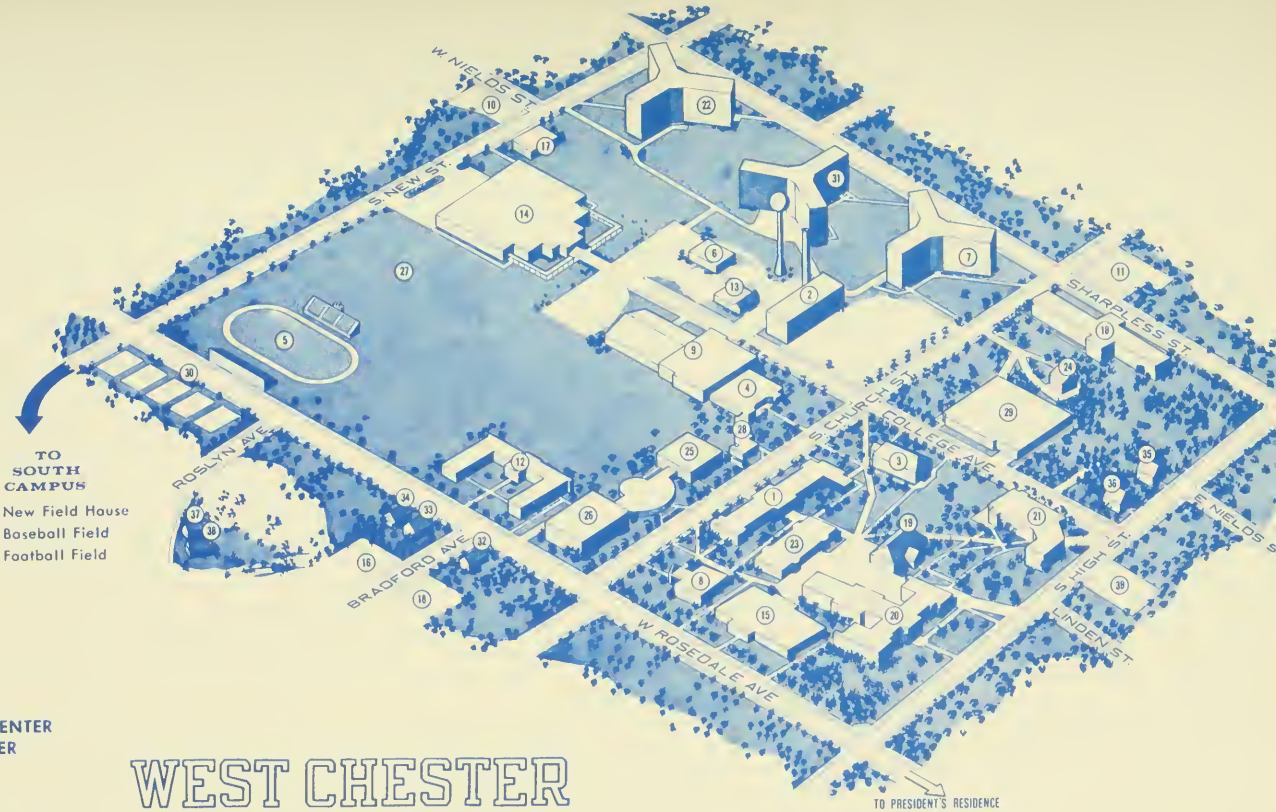
The time and structure of the workshop will be announced by the Department of English if and when the program is definitely scheduled. Those wishing information about the workshop may consult the Department of English. If presented, the program will incorporate contents of three courses which are scheduled for the Summer Sessions. They are: Soc 335 and Eng 309 (Regular) and Eng 306 (Post).

SPEECH AND COMMUNICATION IN THE CLASSROOM

(Tentatively Scheduled)

A workshop designed to aid and complement current classroom teaching in the speech and communication arts so that the teacher may further integrate speech and related areas into an on-going curriculum structure. Emphasis will be on linguistic theory, barriers to effective oral communication, listening skills, anatomy and physiology of the speech mechanism, current trends in audio-visual aids, creative speech, and common speech problems. Models will be developed during the workshop to aid the K-12 teacher in developing specific projects and programs that can become a part of classroom activities in the speech arts. For further information write to Dr. William M. Morehouse, Chairman, Department of Speech and Theatre, West Chester State College, West Chester, Pa. 19380.

1. ANDERSON HALL
2. BOILER PLANT
3. ADMINISTRATION BUILDING
4. EHINGER GYMNASIUM
5. SITE FOR NEW RESIDENCE HALL
6. MAINTENANCE GARAGE
7. GOSHEN RESIDENCE HALL
8. OLD LIBRARY ANNEX
9. HOLLINGER FIELD HOUSE
10. PARKING
11. PARKING
12. KILLINGER RESIDENCE HALL
13. COLLEGE LAUNDRY
14. LAWRENCE CENTER (DINING HALL)
15. FRANCIS HARVEY GREEN LIBRARY
16. PARKING
17. ELECTRIC SUBSTATION
18. McCARTHY RESIDENCE HALL
19. OLD GYMNASIUM
20. OLD MAIN
21. PHILIPS MEMORIAL BUILDING
22. RAMSEY RESIDENCE HALL
23. OLD RECITATION HALL
24. REYNOLDS HALL
25. SCHMUCKER SCIENCE CENTER I
26. SCHMUCKER SCIENCE CENTER II
27. PLAYING FIELD
28. SPECIAL EDUCATION BUILDING
29. SWOPE HALL
30. TENNIS COURTS
31. TYSON RESIDENCE HALL
32. FOOTBALL STAFF OFFICES
33. PHYSICAL EDUCATION RESEARCH CENTER
34. EDUCATIONAL DEVELOPMENT CENTER
35. SPEECH AND HEARING CLINIC
36. SMITH HOUSE
37. PHYSICAL THERAPY CENTER
38. GENERAL STATE AUTHORITY OFFICES
39. PARKING



WEST CHESTER
STATE COLLEGE

NOT SHOWN ON MAP: LEARNING RESEARCH CENTER
(SOUTHEAST CORNER OF HIGH AND ROSEDALE)

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Summer Sessions 1970

Undergraduate Studies